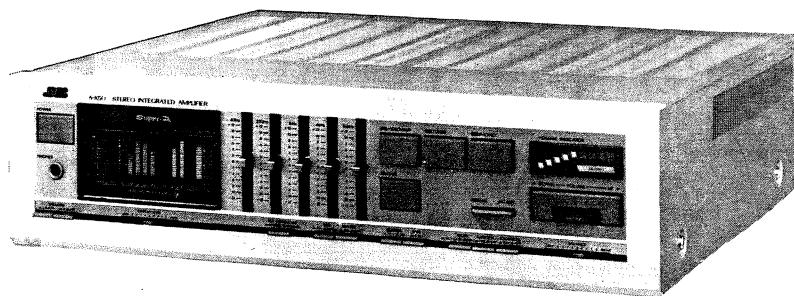


JVC

SERVICE MANUAL

MODEL
A-X50

STEREO INTEGRATED AMPLIFIER




No. 2606
Mar. 1982

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Warning: When replacing the parts marked with , be sure to use the designated parts to ensure safety.

1. Specifications

CIRCUITRY

Preamplifier : ICL MC/MM equalizer with EL-FETs in its initial stage

Power amplifier : DC-servo "Super-A" power amplifier

ALLOVER CHARACTERISTICS

Output power (VIDEO/AUX IN → SP. OUT)

1 kHz : 68 watts RMS per channel min.
(8 ohms, 0.001 % total harmonic distortion measured by JVC Audio Analyze System)
75 watts RMS per channel min.
(8 ohms, 0.7 % total harmonic distortion)

20 Hz — 20 kHz : 65 watts RMS per channel min.
(both channels driven into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007 % total harmonic distortion.)

Total harmonic distortion

(VIDEO/AUX IN → SP. OUT)

: 0.007 % (20 Hz — 20 kHz, 8 ohms) at 65 watts

(PHONO IN → SP. OUT)

at Volume -30 dB : 0.01 % (20 Hz — 20 kHz, 8 ohms) at 65 watts

Intermodulation distortion

(VIDEO/AUX IN → SP. OUT)

: 0.005 % (60 Hz: 7 kHz = 4 : 1, 8 ohms) at 65 watts

Power band width

(VIDEO/AUX IN → SP. OUT)

: 5 Hz — 40 kHz (IHF, 0.02 %, 8 ohms both channels driven)

Frequency characteristic : 3 Hz — 200 kHz +0, -3 dB

(8 ohms)

Damping factor

: 75 (1 kHz, 8 ohms)

Input terminals

Input sensitivity/impedance (1 kHz)

PHONO (MM) : 2.5 mV/47 kohm

PHONO (MC) : 200 μV/100 ohms

TUNER : 150 mV/30 kohms

VIDEO/AUX : 150 mV/30 kohms

TAPE-1, 2 : 150 mV/30 kohms

Signal-to-noise ratio

PHONO (MM) : 87 dB

PHONO (MC) : 68 dB

TUNER : 108 dB

VIDEO/AUX : 108 dB

TAPE-1, 2 : 108 dB

(IHF A Network short circuit)

PHONO (MM) : 85 dB (Rec out)

PHONO (MC) : 77 dB (Rec out)

TUNER : 81 dB (Speaker out)

VIDEO/AUX : 81 dB (Speaker out)

TAPE-1, 2 : 81 dB (Speaker out)

(IHF A-202)

Tone controls

: S.E.A. center frequencies

63, 250, 1k, 4k, 16 kHz

S.E.A. control range ±12 dB

Subsonic filter

: 18 Hz (-6 dB/oct)

Loudness control

: 100 Hz: +6 dB, 10 kHz: +4 dB
(at VOLUME -30 dB)

Muting level

: -20 dB

EQUALIZER

PHONO overload capacity

PHONO (MM) : 200 mV (1 kHz, 0.005 % THD)

PHONO (MC) : 15 mV (1 kHz, 0.005 % THD)

PHONO RIAA deviation : MM: ±0.3 dB (20 Hz — 20 kHz)

MC: ±0.5 dB (20 Hz — 20 kHz)

Total harmonic distortion

PHONO (MM) : 0.005 % (at 8 V output, 20 Hz — 20 kHz)

PHONO (MC) : 0.05 % (at 8 V output, 20 Hz — 20 kHz)

Recording output

Output level/impedance

TAPE REC-1, 2 : 150 mV/660 ohms (PHONO)

GENERAL

Power source

: See back cover.

Dimensions

: 4-5/8" (H) x 17-1/8" (W) x

14-3/8" (D)

(11.7 cm (H) x 43.5 cm (W) x

36.5 cm (D))

Weight

: 18.9 lbs. (8.6 kg)

Design and specifications subject to change without notice.

2. Main Parts Locations

2-(1) Top View

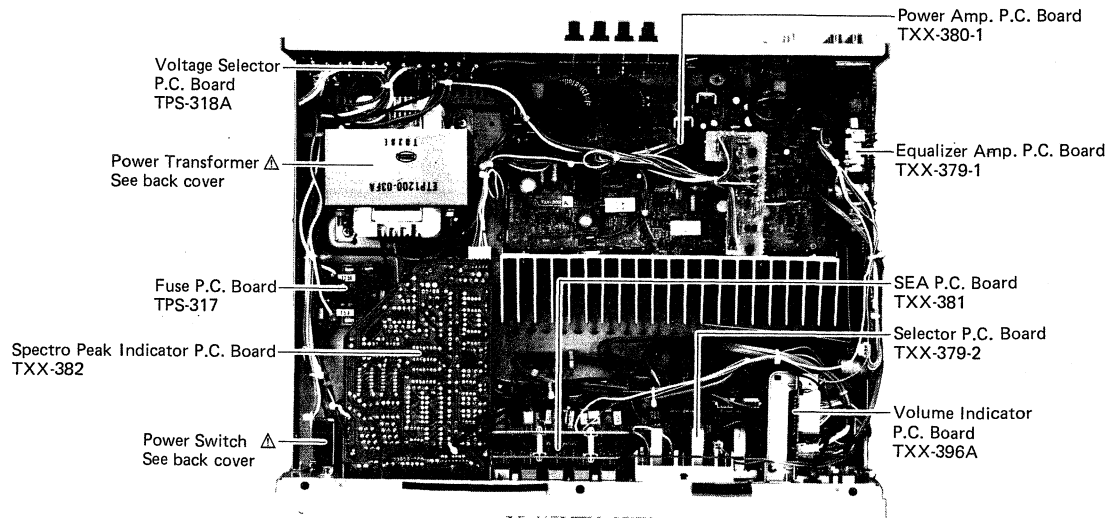


Fig. 1

2-(2) Front View

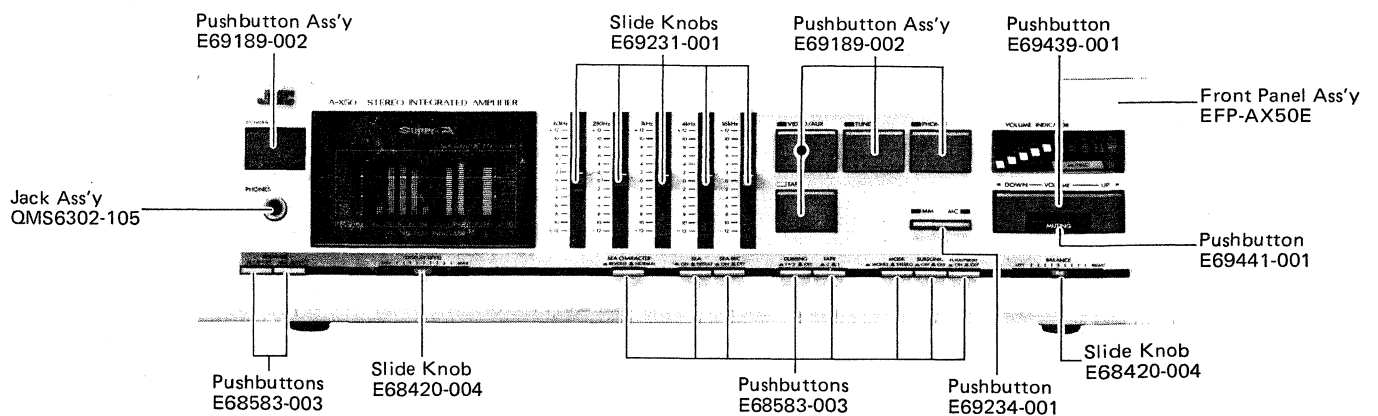


Fig. 2

2-(3) Rear View

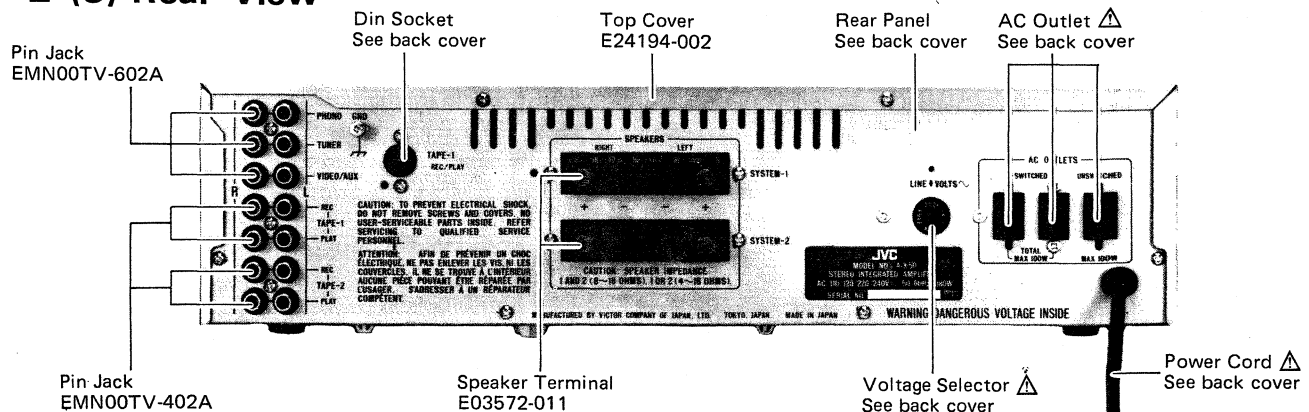


Fig. 3

3. Block Diagram

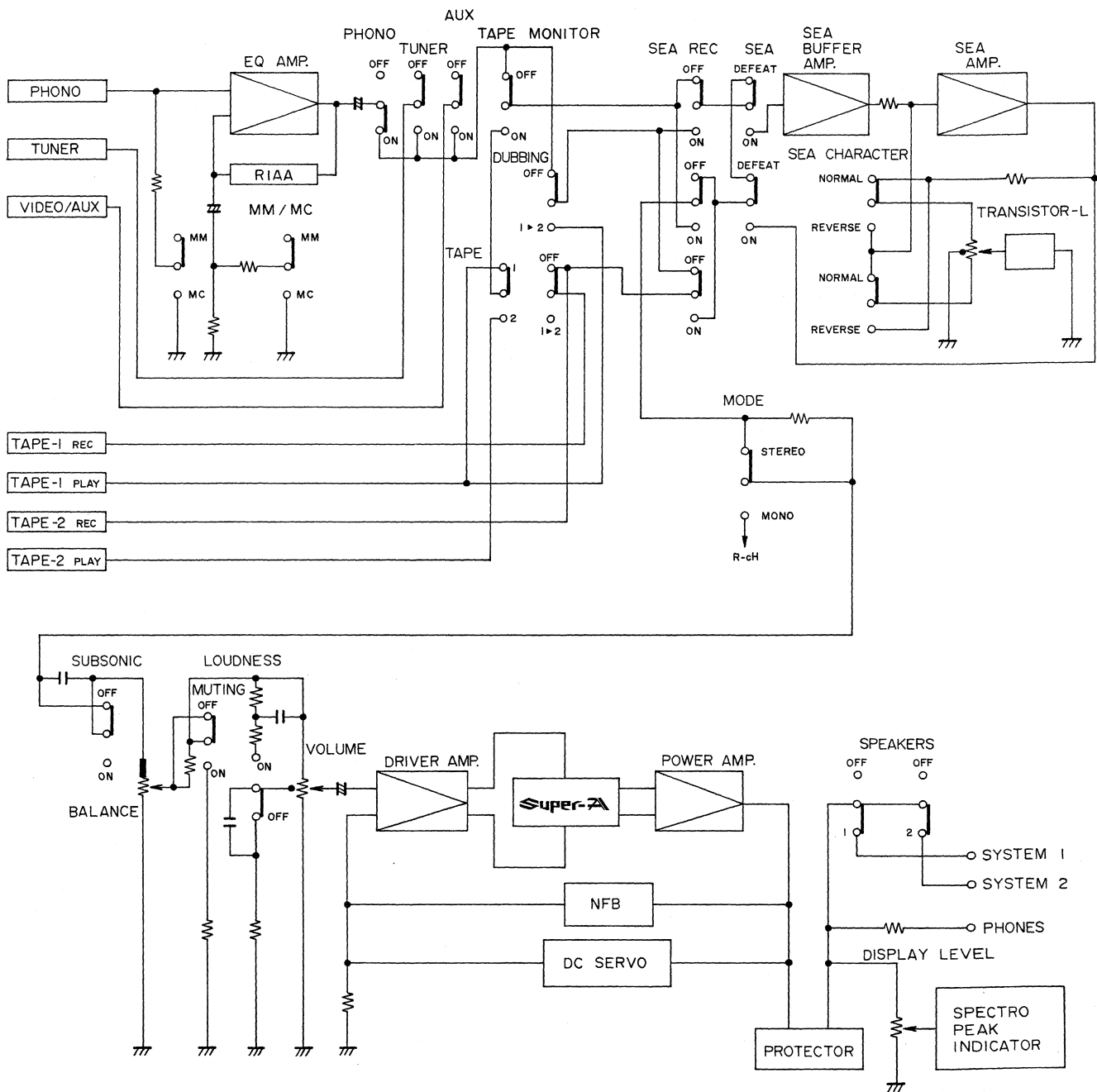


Fig. 4

4. Exploded View and Part Numbers

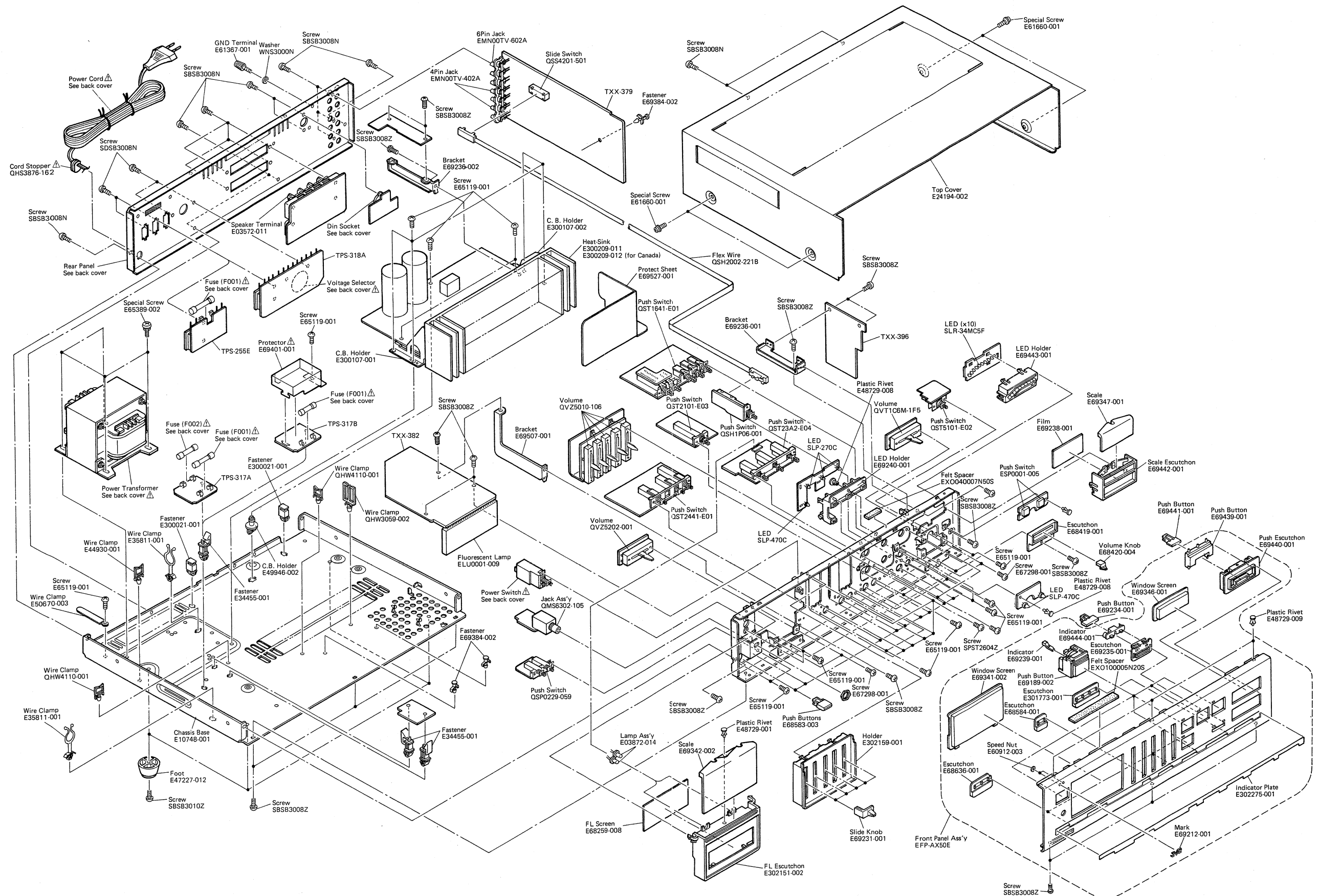


Fig. 5

5. Power Amplifier Idling Current Adjustment

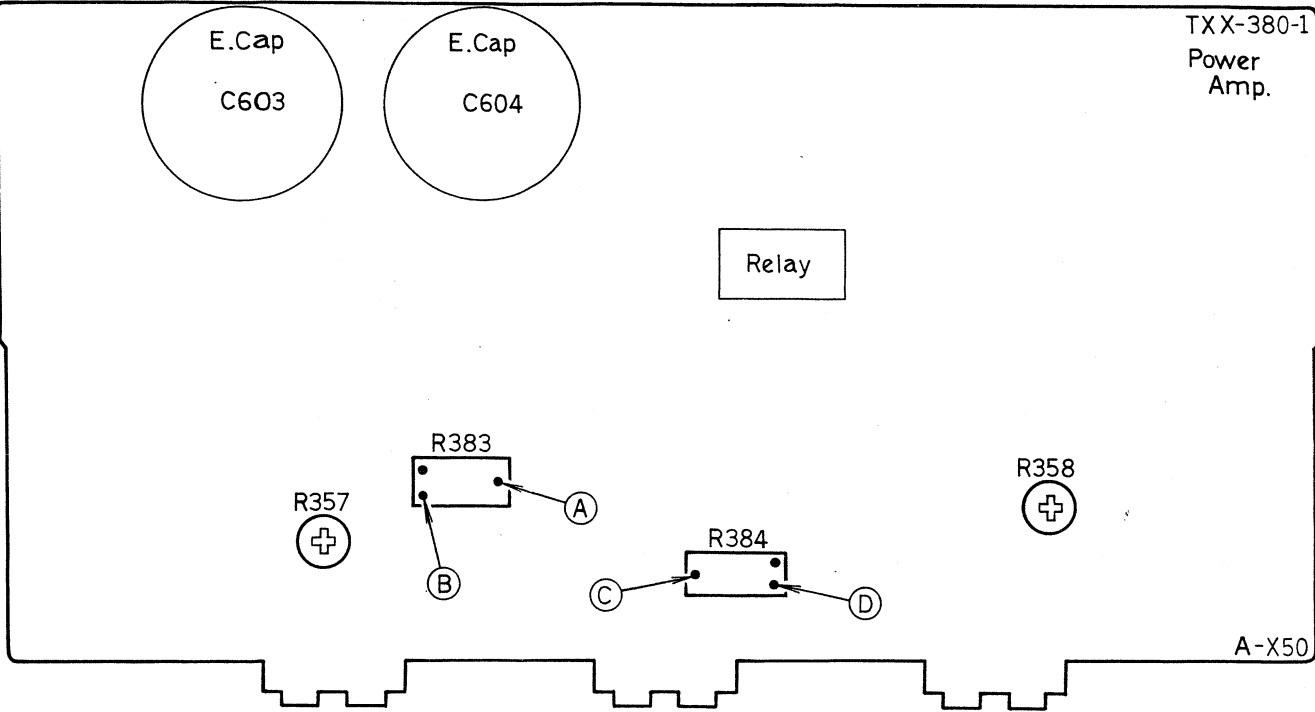


Fig. 6

- Before turning on the power, turn the semi-fixed resistors (R357 for L channel and R358 for R channel) of the power amplifier circuit board fully counterclockwise.
- Adjust the semi-fixed resistors (R357 and R358) so that the voltage at the following test points of the power amplifier circuit board is within a range of 9 mV – 13 mV after the power is turned on.
L channel: Measure the voltage between test point (B) (emitter of Q379) and output at the test point (A).
R channel: Measure the voltage between test point (D) (emitter of Q380) and output at the test point (C).
- Readjust resistors R357 and R358 about 5 minutes after the power is turned on (the heat sink temperature must be sufficiently high) so that the voltage at the test points becomes 11 mV.
Confirm that the voltage does not vary when the heat sink temperature increases further.
Note: Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of A-X50 or of other measuring equipment.

6. Printed Circuit Board Ass'y and Parts List

6-(1) TXX-379 Equalizer Amp.P.C.Board Ass'y

Note: TXX-379-1 varies according to the areas employed. See note (1) when placing an order.

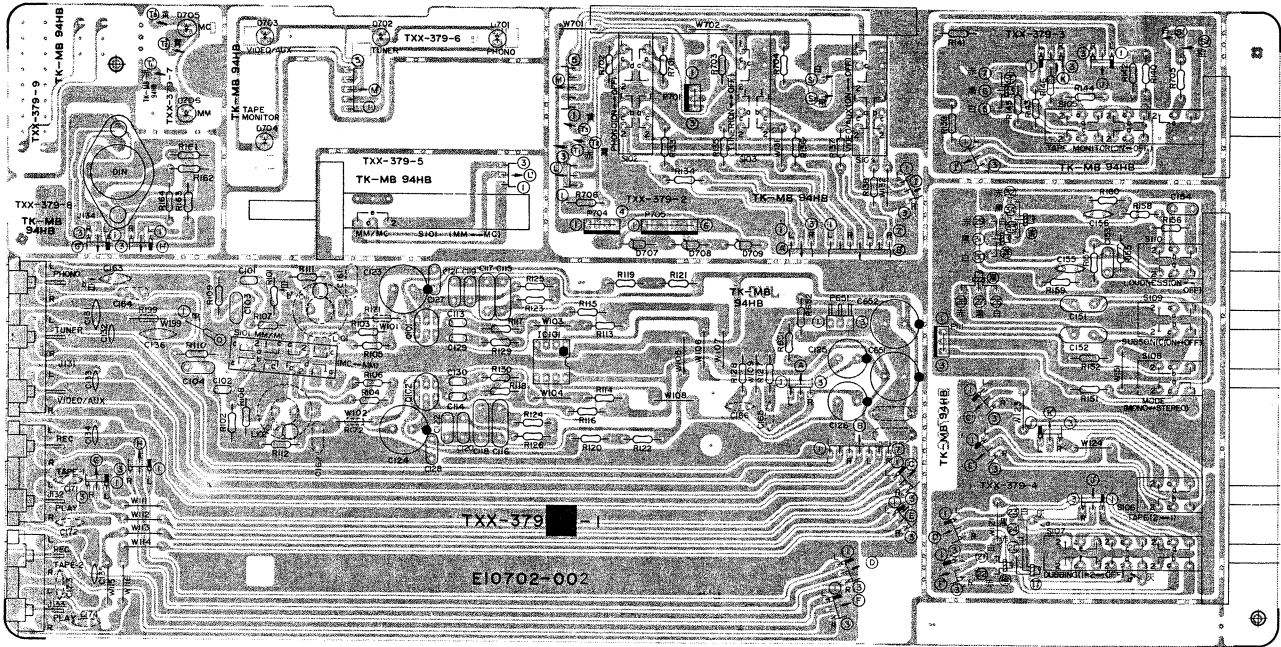


Fig. 7

Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A. and Canada	TXX-379[A]
West Germany	TXX-379[C]
All Other Areas	TXX-379[B]

Note (2) The symbols (赤, 黒, 白 ... etc) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	Maker
Q101	2SK240(BL,V)		F.E.T.	Toshiba
Q102	2SK240(BL,V)		"	"

Integrated Circuit

Item No.	Part Number	Rating	Description	Maker
IC101	NJM4560D-X			JRC

Diodes

Item No.	Part Number	Rating	Description	Maker
D701	SLP-270C		L.E.D.	Sanyo
D702	SLP-270C		"	"
D703	SLP-270C		"	"
D704	SLP-470C		"	"
D705	SLP-470C		"	"
D706	SLP-470C		"	"
D707	RD7.5EB3		Zener	NEC
D708	RD7.5EB3		"	"
D709	RD7.5EB3		"	"

Coils

Item No.	Part Number	Rating	Description
L101	EQL0111-151	150μH	Inductor (for C)
L102	EQL0111-151	"	" (")

Capacitors

Item No.	Part Number	Rating	Description
C101	QFM81HK-103	0.01 μF 50 V	Mylar (for A,B)
C101	QFP31HJ-471	470 pF	Poly (for C)
C102	QFP31HJ-471	"	" (")
C102	QFM81HK-103	0.01 μF	Mylar (for A,B)
C103	QFP31HJ-221	220 pF	Poly (for A,B)
C103	QCS21HJ-151	150 pF	Ceramic (for C)

Capacitors

Item No.	Part Number	Rating		Description
C104	QFP31HJ-151	150 pF	50 V	Poly (for A,B)
C111	QFS81HJ-560	56 pF	"	Polyst (for A,B)
C112	QFS81HJ-560	"	"	" (")
C113	QFM81HK-392	3900 pF	"	Mylar
C114	QFM81HK-392	"	"	"
C115	QFP31HJ-822	8200 pF	"	Polypropylene
C116	QFP31HJ-822	"	"	"
C117	QFP31HJ-273	0.027 μ F	"	"
C118	QFP31HJ-273	"	"	"
C119	QFP31HJ-682	6800 pF	"	"
C120	QFP31HJ-682	"	"	"
C121	QFP31HJ-332	3300 pF	"	"
C122	QFP31HJ-332	"	"	"
C123	QET50JM-228H	2200 μ F	6.3 V	Electrolytic
C124	QET50JM-228H	"	"	"
C125	EEZ5001-475	4.7 μ F	100 V	"
C126	EEZ5001-475	"	"	"
C127	QFM81HK-473	0.047 μ F	50 V	Mylar
C128	QFM81HK-473	"	"	"
C129	QFM81HK-822	8200 pF	"	"
C130	QFM81HK-822	"	"	"
C131	QCF21HP-223A	0.022 μ F	"	Ceramic
C132	QCF21HP-103A	0.01 μ F	"	"
C133	QCF21HP-103A	"	"	"
C134	QCF21HP-103A	"	"	"
C135	QCF21HP-103A	"	"	"
C136	QCF21HP-473A	0.047 μ F	"	" (for C)
C151	QFM81HK-224	0.22 μ F	"	Mylar
C152	QFM81HK-224	"	"	"
C153	QFM81HK-823	0.082 μ F	"	"
C154	QFM81HK-823	"	"	"
C155	QCS21HJ-391	390 pF	"	Ceramic
C156	QCS21HJ-391	"	"	"
C161	QFP31HJ-301	300 pF	"	Poly (for C)
C162	QDP31HJ-301	"	"	" (")
C164	QFP21HJ-331	330 pF	"	Ceramic (for C)
C165	QCS21HJ-121	120 pF	"	" (")
C166	QCS21HJ-121	"	"	" (")
C167	QCS21HJ-391	390 pF	"	" (")
C168	QCS21HJ-391	"	"	" (")
C171	QCS21HJ-101	100 pF	"	" (")
C172	QCS21HJ-101	"	"	" (")
C173	QCS21HJ-101	"	"	" (")
C174	QCS21HJ-101	"	"	" (")
C651	QET51HM-227H	220 μ F	"	Electrolytic
C652	QET51HM-227H	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R101	QRD141J-101S	100 Ω	1/4 W	Carbon
R102	QRD141J-101S	"	"	"
R103	QRD141J-130S	13 Ω	"	"
R104	QRD141J-130S	"	"	"
R105	QRD141J-161S	160 Ω	"	"
R106	QRD141J-161S	"	"	"
R107	QRD141J-473S	47 k Ω	"	"
R108	QRD141J-473S	"	"	"
R109	QRD141J-471S	470 Ω	"	"
R110	QRD141J-471S	"	"	"
R111	QRD141J-5R6S	5.6 Ω	"	" (for A,B)
R111	QRD141J-152S	1.5 k Ω	"	" (for C)
R112	QRD141J-152S	"	"	" (")
R112	QRD141J-5R6S	5.6 Ω	"	" (for A,B)
R113	QRD141J-562S	5.6 k Ω	"	"
R114	QRD141J-562S	"	"	"
R115	QRD141J-562S	"	"	"
R116	QRD141J-562S	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R117	QRD141J-270S	27 Ω	1/4 W	Carbon
R118	QRD141J-270S	"	"	"
R119	QRD141J-272S	2.7 k Ω	"	"
R120	QRD141J-272S	"	"	"
R121	QRD141J-222S	2.2 k Ω	"	"
R122	QRD141J-222S	"	"	"
R123	QRD141J-913S	91 k Ω	"	"
R124	QRD141J-913S	"	"	"
R125	QRD141J-752S	7.5 k Ω	"	"
R126	QRD141J-752S	"	"	"
R127	QRD141J-224S	220 k Ω	"	"
R128	QRD141J-224S	"	"	"
R129	QRD141J-561S	560 Ω	"	"
R130	QRD141J-561S	"	"	"
R133	QRD141J-331S	330 Ω	"	"
R134	QRD141J-331S	"	"	"
R135	QRD141J-331S	"	"	"
R136	QRD141J-331S	"	"	"
R137	QRD141J-331S	"	"	"
R138	QRD141J-331S	"	"	"
R139	QRD141J-331S	"	"	"
R140	QRD141J-331S	"	"	"
R141	QRD141J-105S	1 M Ω	"	"
R142	QRD141J-105S	"	"	"
R143	QRD141J-331S	330 Ω	"	"
R144	QRD141J-331S	"	"	"
R145	QRD141J-105S	1 M Ω	"	"
R146	QRD141J-105S	"	"	"
R151	QRD141J-472S	4.7 k Ω	"	"
R152	QRD141J-472S	"	"	"
R155	QRD141J-103S	10 k Ω	"	"
R156	QRD141J-103S	"	"	"
R157	QRD141J-333S	33 k Ω	"	"
R158	QRD141J-333S	"	"	"
R159	QRD141J-105S	1 M Ω	"	"
R160	QRD141J-105S	"	"	"
R161	QRD141J-823S	82 k Ω	"	" (for B,C)
R162	QRD141J-823S	"	"	" (")
R163	QRD141J-334S	330 k Ω	"	" (")
R164	QRD141J-334S	"	"	" (")
R171	QRD141J-5R6S	5.6 Ω	"	" (for C)
R172	QRD141J-5R6S	"	"	" (")
R199	QRD141J-4R7S	4.7 Ω	"	" (")
R651	QRD141J-101S	100 Ω	"	"
R652	QRD141J-101S	"	"	"
R701	QRD141J-390S	39 Ω	"	"
R702	QRD141J-390S	"	"	"
R703	QRD141J-390S	"	"	"
R704	QRD141J-390S	"	"	"
R705	QRD141J-181S	180 Ω	"	"
R706	QRD141J-390S	39 Ω	"	"

Others

Item No.	Part Number	Rating	Description
	E10702-002		Circuit Board
	E69240-001		LED Holder
	E03532-001		Shield Case (for C)
J131	EMN00TV-602A		6P Pin Jack
J132	EMN00TV-402A		Pin Jack Ass'y
J133	EMN00TV-402A		"
J134	E03623-003		DIN Socket (for B,C)
P111	QMV5005-003		3P Plug Ass'y
P651	QMV5004-003		"
P701	QMV5005-003		"
P704	QMV5005-004		4P Plug Ass'y
P705	QMV5005-006		6P Plug Ass'y
S101	QSS4201-501		Slide Switch
			(-a, b, c, d)
S101	QSH1P06-001		Push Switch (-e)
S102	QST23A2-E04		"
S105	QST2101-E03		"
S106	QST1641-E01		"

6-(2) TXX-380 Power Amp. P.C. Board Ass'y

Note: TXX-380-1 varies according to the areas employed. See note (1) when placing an order.

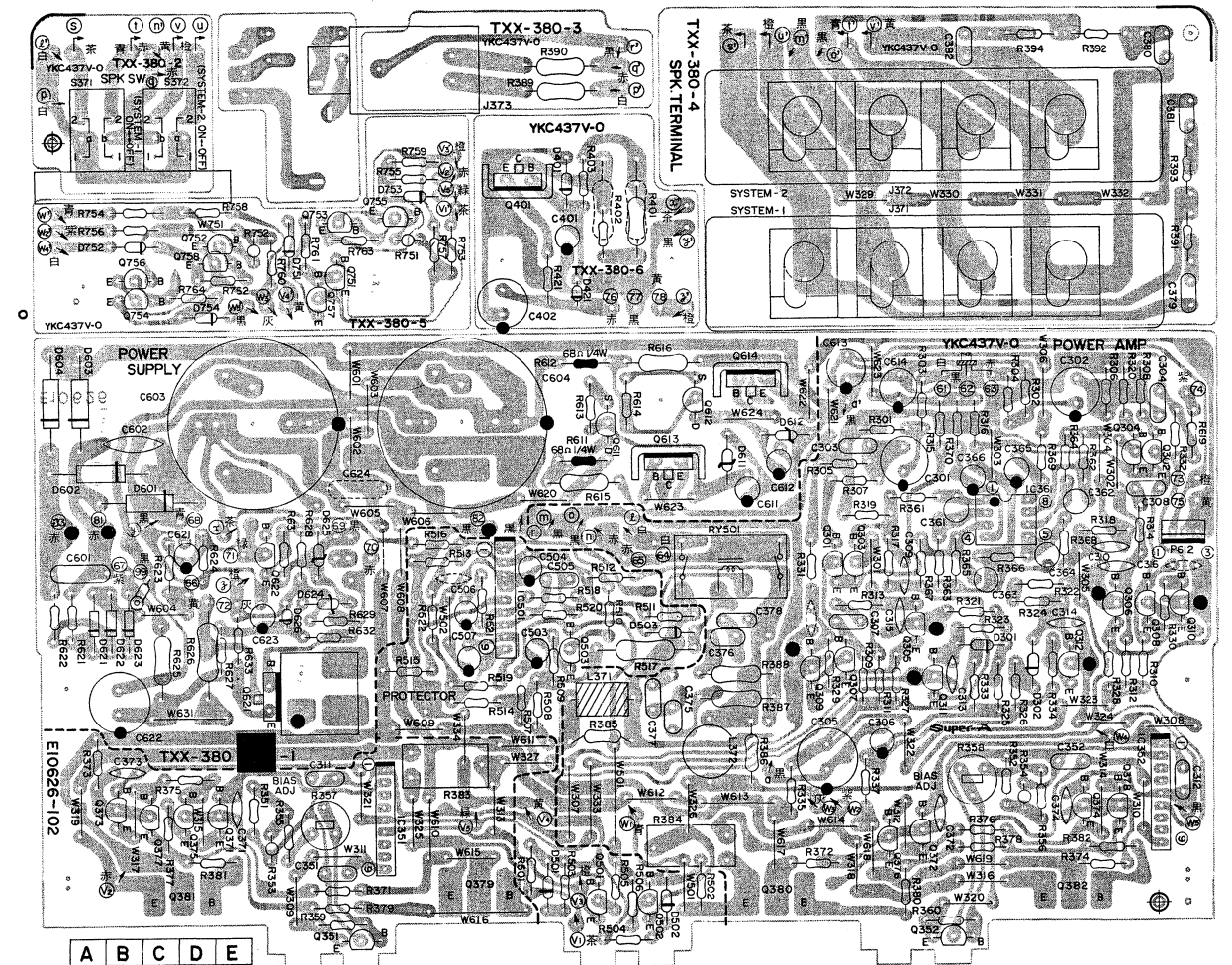


Fig. 8

Note (1)

Designated Areas	P.C. Board Ass'y
Canada	TXX-380 [B]
West Germany	TXX-380 [C]
All Other Areas	TXX-380 [A]

Note (2) The symbols (赤, 黒, 白 ... etc.) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	Maker
Q301	2SC2240(GR,BL)		Silicon	Toshiba
Q302	2SC2240(GR,BL)		"	"
Q303	2SC2240(GR,BL)		"	"
Q304	2SC2240(GR,BL)		"	"
Q305	2SA970(GR,BL)		"	"
Q306	2SA970(GR,BL)		"	"
Q307	2SA970(GR,BL)		"	"
Q308	2SA970(GR,BL)		"	"
Q309	2SA970(GR,BL)		"	"
Q310	2SA970(GR,BL)		"	"

Transistors

Item No.	Part Number	Rating	Description	Maker
Q311	2SC2240(GR,BL)		Silicon	Toshiba
Q312	2SC2240(GR,BL)		"	"
Q351	2SC2240(GR,BL)		"	"
Q352	2SC2240(GR,BL)		"	"
Q371	2SC2240(GR,BL)		"	"
Q372	2SC2240(GR,BL)		"	"
Q373	2SA970(GR,BL)		"	"
Q374	2SA970(GR,BL)		"	"
Q375	2SC2235(O,Y)		"	"
Q376	2SC2235(O,Y)		"	"
Q377	2SA965(O,Y)		"	"
Q378	2SA965(O,Y)		"	"
Q379	2SD845LB(R,O)		"	"
Q380	2SD845LB(R,O)		"	"
Q381	2SB755LB(R,O)		"	"
Q382	2SB755LB(R,O)		"	"
Q401	2SD313V(E)		"	Sanyo
Q501	2SC2240(GR,BL)		"	Toshiba
Q502	2SC2240(GR,BL)		"	"
Q503	2SA970(GR,BL)		"	"
Q611	2SK105(H)		F.E.T.	NEC
Q612	2SK105(H)		"	"

Transistors

Item No.	Part Number	Rating	Description	Maker
Q613	2SD313V(E)		Silicon	Sanyo
Q614	2SB507V(E)		"	"
Q621	2SB507V(E)		"	"
Q622	2SA970(GR,BL)		"	Toshiba
Q751	2SC2240(GR,BL)		"	"
Q752	2SC2240(GR,BL)		"	"
Q753	2SC2240(GR,BL)		"	"
Q754	2SC2240(GR,BL)		"	"
Q755	2SA970(GR,BL)		"	"
Q756	2SA970(GR,BL)		"	"
Q757	2SA970(GR,BL)		"	"
Q758	2SA970(GR,BL)		"	"

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC351	VC5022(X,Y)			ROHM
IC352	VC5022(X,Y)			"
IC361	NJM4558D			JRC
IC501	TA7317P			Toshiba

Diodes

Item No.	Part Number	Rating	Description	Maker
D301	1S2076-31		Silicon	Hitachi
D302	1S2076-31		"	"
D401	RD6.2EB3		Zener	NEC
D501	1S2076-31		Silicon	Hitachi
D502	1S2076-31		"	"
D503	1S2076-31		"	"
D601	S3V20F		"	Shindengen
D602	S3V20F		"	"
D603	S3V20F		"	"
D604	S3V20F		"	"
D611	RD22EB3		Zener	NEC
D612	RD22EB3		"	"
D621	ERB12-02RKL1		Silicon	Fujidenki
D622	ERB12-02RKL1		"	"
D623	ERB12-02RKL1		"	"
D624	RD27EB3		Zener	NEC
D625	RD6.8EB3		"	"
D626	VD1220		Silicon	"
D751	1S2076-31		"	Hitachi
D752	1S2076-31		"	"
D753	1S2076-31		"	"
D754	1S2076-31		"	"

Coils

Item No.	Part Number	Rating	Description
L371	EQL0001-1R0	1 μ H	Choke Coil
L372	EQL0101-1R2	1.2 μ H	"

Capacitors

Item No.	Part Number	Rating	Description
C301	EEZ5001-475	4.7 μ F	Electrolytic
C302	EEZ5001-475	"	"
C303	QFP31HJ-101	100 pF	Poly (for A,B)
C303	QCS21HJ-390	39 pF	Ceramic (for C)
C304	QFP31HJ-101	100 pF	Poly (for A,B)
C304	QCS21HJ-390	39 pF	Ceramic (for C)
C305	QET51JM-227H	220 μ F	Electrolytic
C306	QET51JM-225H	2.2 μ F	"
C307	QFP31HJ-471	470 pF	Polypropylene
C308	QFP31HJ-471	"	"
C309	QCS21HJ-100A	10 pF	Ceramic
C310	QCS21HJ-100A	"	"

Capacitors

Item No.	Part Number	Rating	Description
C311	QFM81HK-332	0.033 μ F	50 V Mylar
C312	QFM81HK-332	"	"
C313	QCS21HJ-150	15 pF	"
C314	QCS21HJ-150	"	"
C315	QCS21HJ-220	22 pF	"
C316	QCS21HJ-220	"	"
C351	QFM81HK-103	0.01 μ F	"
C352	QFM81HK-103	"	"
C361	QEZ0046-225	2.2 μ F	N.P. Electrolytic
C362	QEZ0046-225	"	"
C363	QEZ0046-225	"	"
C364	QEZ0046-225	"	"
C365	QET51CM-476H	47 μ F	16 V Electrolytic
C366	QET51CM-476H	"	"
C371	QCS22HJ-680A	68 pF	50 V Ceramic
C372	QCS22HJ-680A	"	"
C373	QCS22HJ-330A	33 pF	500 V "
C374	QCS22HJ-330A	"	"
C375	QFM81HK-104	0.1 μ F	50 V Mylar
C376	QFM81HK-104	"	"
C377	QFM81HK-104	"	"
C378	QFM81HK-104	"	"
C379	QFM81HK-103	0.01 μ F	"
C380	QFM81HK-103	"	"
C381	QFM81HK-103	"	"
C382	QFM81HK-103	"	"
C401	QET51AM-476	47 μ F	10 V Electrolytic
C402	QET51AM-477	470 μ F	"
C503	QET51HM-106H	10 μ F	50 V "
C504	QET51AM-476H	47 μ F	10 V "
C505	QFM81HK-153	0.015 μ F	50 V Mylar
C506	QET51HM-474	0.47 μ F	"
C507	QET51CM-226E	22 μ F	16 V Electrolytic
C601	QFZ0075-104H	0.1 μ F	400 V Metalized Mylar
C602	QCE22HP-103A	0.01 μ F	500 V Ceramic
C603	EEW5601-878	8700 μ F	50 V Electrolytic
C604	EEW5601-878	"	"
C611	QET51EM-476H	47 μ F	25 V "
C612	QET51EM-476H	"	"
C613	QET51EM-107E	100 μ F	"
C614	QET51EM-107E	"	"
C621	QET51HM-474	0.47 μ F	50 V "
C622	QET51HM-227	220 μ F	"
C623	QET51HM-226	22 μ F	"

Resistors

Item No.	Part Number	Rating	Description
R301	QRD141J-105S	1 M Ω	1/4 W Carbon
R302	QRD141J-105S	"	"
R303	QRD141J-561S	560 Ω	"
R304	QRD141J-561S	"	"
R305	QRD141J-104S	100 k Ω	"
R306	QRD141J-104S	"	"
R307	QRD141J-101S	100 Ω	" (for A,B)
R307	QRD141J-621S	620 Ω	" (for C)
R308	QRD141J-101S	100 Ω	" (for A,B)
R308	QRD141J-621S	620 Ω	" (for C)
R309	QRD141J-202S	2 k Ω	"
R310	QRD141J-202S	"	"
R311	QRD141J-202S	"	"
R312	QRD141J-202S	"	"
R313	QRD141J-331S	330 Ω	"
R314	QRD141J-331S	"	"
R315	QRD141J-123	12 k Ω	"
R316	QRD141J-123S	"	"
R317	QRD141J-513S	51 k Ω	"
R318	QRD141J-513S	"	"
R319	QRZ0052-331	330 Ω	" Fusible Δ
R320	QRZ0052-331	"	" Δ

Resistors

Item No.	Part Number	Rating	Description
R321	QRD141J-562S	5.6 k Ω	1/4 W Carbon
R322	QRD141J-562S	"	"
R323	QRD141J-562S	"	"
R324	QRD141J-562S	"	"
R325	QRD149J-181S	180 Ω	" Δ
R326	QRD149J-181S	"	" Δ
R327	QRD149J-121S	120 Ω	" Δ
R328	QRD149J-121S	"	" Δ
R329	QRD141J-152S	1.5 k Ω	"
R330	QRD141J-152S	"	"
R331	QRD141J-393S	39 k Ω	"
R332	QRD141J-393S	"	"
R333	QRD149J-181S	180 Ω	" Δ
R334	QRD149J-181S	"	" Δ
R335	QRD149J-470S	47 Ω	" Δ
R337	QRD149J-150S	15 Ω	" Δ
R351	QRD141J-471S	470 Ω	"
R352	QRD141J-471S	"	"
R355	QRD141J-431S	430 Ω	"
R356	QRD141J-431S	"	"
R357	QVZ3501-471	470 Ω	Variable
R358	QVZ3501-471	"	"
R359	QRD141J-391S	390 Ω	1/4 W Carbon
R360	QRD141J-391S	"	"
R361	QRD141J-472S	4.7 k Ω	"
R362	QRD141J-472S	"	"
R363	QRD141J-563S	56 k Ω	"
R364	QRD141J-563S	"	"
R365	QRD141J-683S	68 k Ω	"
R366	QRD141J-683S	"	"
R367	QRD141J-394S	390 k Ω	"
R368	QRD141J-394S	"	"
R369	QRD141J-302S	3 k Ω	"
R370	QRD141J-222S	2.2 k Ω	"
R371	QRD149J-100S	10 Ω	" Δ
R372	QRD149J-100S	"	" Δ
R373	QRD149J-100S	"	" Δ
R374	QRD149J-100S	"	" Δ
R375	QRZ0052-152	15 k Ω	" Fusible Δ
R376	QRZ0052-152	"	" Δ
R377	QRZ0052-471	470 Ω	" Δ
R378	QRZ0052-471	"	" Δ
R379	QRD149J-6R8S	6.8 Ω	" Carbon Δ
R380	QRD149J-6R8S	"	" Δ
R381	QRD149J-6R8S	"	" Δ
R382	QRD149J-6R8S	"	" Δ
R383	ERF032K-R22	0.22 Ω	3 W Cement Δ
R384	ERF032K-R22	"	" Δ
R385	QRD129J-330	33 Ω	1/2 W Carbon Δ
R386	QRD129J-330	"	" Δ
R387	QRX017J-100S	10 Ω	1 W O.M. Film Δ
R388	QRX017J-100S	"	" Δ
R389	QRG017J-331S	330 Ω	" Δ
R390	QRG017J-331S	"	" Δ
R391	QRZ0059-100	10 Ω	1/4 W Fusible Δ
R392	QRZ0059-100	"	" Δ
R393	QRZ0059-100	"	" Δ
R394	QRZ0059-100	"	" Δ
R401	QRG017J-820S	82 Ω	1 W O.M. Film Δ
R402	QRD149J-820S	"	1/4 W Carbon Δ
R403	QRD141J-153S	15 k Ω	"
R501	QRD141J-222S	2.2 k Ω	"
R502	QRD141J-222S	"	"
R503	QRD141J-183S	18 k Ω	"
R504	QRD141J-183S	"	"
R505	QRD141J-473S	47 k Ω	"
R506	QRD148J-473S	"	"
R507	QRD141J-223S	22 k Ω	"
R508	QRD149J-270S	27 Ω	" Δ
R509	QRD141J-682S	6.8 k Ω	"
R510	QRD141J-563S	56 k Ω	"
R511	QRD141J-683S	68 k Ω	"
R512	QRD141J-563S	56 k Ω	"
R513	QRD141J-273S	27 k Ω	"

Resistors

Item No.	Part Number	Rating	Description
R514	QRD141J-273S	27 k Ω	1/4 W Carbon
R515	QRD141J-203S	20 k Ω	"
R516	QRD141J-223S	22 k Ω	"
R517	QRG027J-102	1 k Ω	2 W O.M. Film Δ
R518	QRD141J-151S	150 Ω	1/4 W Carbon
R519	QRD141J-224S	220 k Ω	"
R520	QRD141J-333S	33 k Ω	"
R521	QRD141J-563S	56 k Ω	"
R522	QRD141J-683S	68 k Ω	"
R611	QRZ0052-680	68 Ω	" Fusible Δ
R612	QRZ0052-680	"	" Δ
R613	QRD141J-471S	470 Ω	" Carbon
R614	QRD141J-471S	"	"
R615	QRG017J-151S	150 Ω	1 W O.M. Film Δ
R616	QRG017J-151S	"	" Δ
R619	QRD141J-5R6S	5.6 Ω	1/4 W Carbon
R621	QRD149J-4R7S	4.7 Ω	" Δ
R622	QRD149J-4R7S	"	" Δ
R623	QRD141J-123S	12 k Ω	"
R624	QRD141J-562S	5.6 k Ω	"
R625	QRG017J-220S	22 Ω	1 W O.M. Film Δ
R626	QRG027J-330	33 Ω	2 W " Δ
R627	QRD141J-562S	5.6 k Ω	1/4 W Carbon
R628	QRD141J-392S	3.9 k Ω	"
R629	QRD149J-390	39 Ω	" Δ
R631	QRD141J-331S	330 Ω	"
R632	QRD141J-221S	220 Ω	"
R633	QRD149J-2R2S	2.2 Ω	" Δ
R753	QRD141J-511S	510 Ω	"
R754	QRD141J-511S	"	"
R755	QRD141J-561S	560 Ω	"
R756	QRD141J-561S	"	"
R757	QRD141J-681S	680 Ω	"
R758	QRD141J-681S	"	"
R759	QRD141J-681S	"	"
R760	QRD141J-681S	"	"
R761	QRD141J-103S	10 k Ω	"
R762	QRD141J-103S	"	"
R763	QRD141J-103S	"	"
R764	QRD141J-103S	"	"

Thermistors

Item No.	Part Number	Rating	Description
R353	ERT-D2WFL351S		Maker Matsushita
R354	ERT-D2WFL351S		"
R751	ERT-D2WFL351S		"
R752	ERT-D2WFL351S		"

Others

Item No.	Part Number	Rating	Description
	E10626-102		Circuit Board
	E67294-003		Leaf Spring
	E69236-002		Bracket
	E300107-001		C.B. Holder
	E300107-002		"
	E65590-003		Special Screw
	SBSB3008N		Tapping Screw
	SBSB3008Z		"
	SBSE3012Z		Screw

6-(3) TXX-381 □ SEA P.C.Board Ass'y

Note: TXX-381□-1 varies according to the areas employed. See note (1) when placing an order.

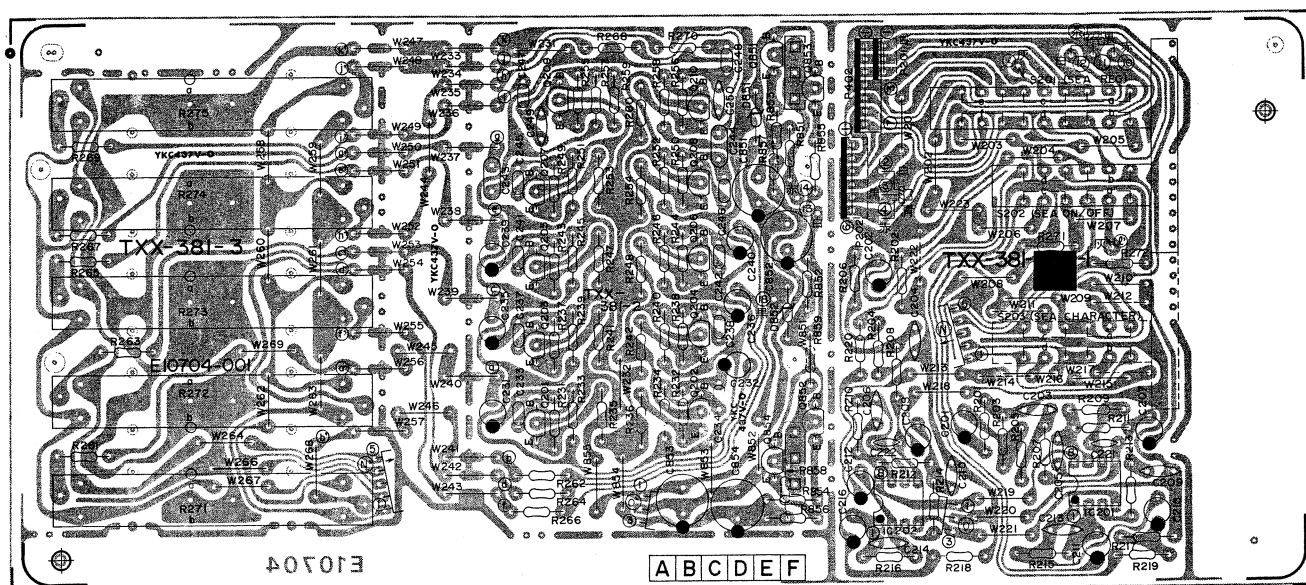


Fig. 9

Note (1)

Designated Areas	P.C. Board Ass'y
West Germany	TXX-381 <input type="checkbox"/>
All Other Areas	TXX-381 <input type="checkbox"/>

Note (2) The symbols (赤 , 黒 , 白 ... etc.) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	
				Maker
Q201	2SC2240(GR)		Silicon	Toshiba
Q202	2SC2240(GR)		"	"
Q203	2SC2240(GR)		"	"
Q204	2SC2240(GR)		"	"
Q205	2SC2240(GR)		"	"
Q206	2SC2240(GR)		"	"
Q207	2SC2240(GR)		"	"
Q208	2SC2240(GR)		"	"
Q209	2SC2240(GR)		"	"
Q210	2SC2240(GR)		"	"

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC201	NJM4560D-X			JRC
IC202	NJM4560D-X			"

Capacitors

Item No.	Part Number	Rating		Description
C201	QET51HR-475H	4.7 μ F	50 V	Electrolytic
C202	QET51HR-475H	"	"	"
C203	QCS21HJ-470	47 pF	"	Ceramic (for C)
C203	QCS21HJ-681	680 pF	"	" (for D)
C204	QCS21HJ-470	47 pF	"	" (for C)

Capacitors

Item No.	Part Number	Rating		Description
C204	QCS21HJ-681	680 pF	50 V	Ceramic (for D)
C205	QCS21HJ-101	100 pF	"	"
C206	QCS21HJ-101	"	"	"
C207	QET51CR-476	47 μ F	16 V	Electrolytic
C208	QET51CR-476	"	"	"
C209	QCS21HJ-330A	33 pF	50 V	Ceramic
C210	QCS21HJ-330A	"	"	"
C211	QET51CR-476	47 μ F	16 V	Electrolytic
C212	QET51CR-476	"	"	"
C213	QCS21HJ-470	47 pF	50 V	Ceramic
C214	QCS21HJ-470	"	"	"
C215	QET51HR-475H	4.7 μ F	"	Electrolytic
C216	QET51HR-475H	"	"	"
C231	QET51HR-475H	"	"	"
C232	QET51HR-475H	"	"	"
C233	QFM81HK-683	0.068 μ F	"	Mylar
C234	QFM81HK-683	"	"	"
C235	QET51HR-105	1 μ F	"	Electrolytic
C236	QET51HR-105	"	"	"
C237	QFM81HK-273	0.027 μ F	"	Mylar
C238	QFM81HK-273	"	"	"
C239	QEB51HM-334	0.33 μ F	"	L.L.C. Electrolytic
C240	QEB51HM-334	"	"	"
C241	QFM81HK-822	8200 pF	"	Mylar
C242	QFM81HK-822	"	"	"
C243	QFM81HK-683	0.068 μ F	"	"
C244	QFM81HK-683	"	"	"
C245	QFM81HK-122	1200 pF	"	"
C246	QFM81HK-122	"	"	"
C247	QFM81HK-183	0.018 μ F	"	"
C248	QFM81HK-183	"	"	"
C249	QCS21HJ-331	330 pF	"	Ceramic
C250	QCS21HJ-331	"	"	"
C853	QET51ER-227	220 μ F	25 V	Electrolytic
C854	QET51ER-227	"	"	"

Resistors

Item No.	Part Number	Rating		Description
R201	QRD141J-104S	100 k Ω	1/4 W	Carbon
R202	QRD141J-104S	"	"	"
R203	QRD141J-104S	"	"	"
R204	QRD141J-104S	"	"	"
R205	QRD141J-102S	1 k Ω	"	"
R206	QRD141J-102S	"	"	"
R207	QRD141J-101S	100 Ω	"	"
R208	QRD141J-101S	"	"	"
R209	QRD141J-102S	1 k Ω	"	"
R210	QRD141J-102S	"	"	"
R211	QRD141J-302S	3 k Ω	"	"
R212	QRD141J-302S	"	"	"
R213	QRD141J-101S	100 Ω	"	"
R214	QRD141J-101S	"	"	"
R215	QRD141J-302S	3 k Ω	"	"
R216	QRD141J-302S	"	"	"
R217	QRD141J-224S	220 k Ω	"	"
R218	QRD141J-224S	"	"	"
R219	QRD141J-331S	330 Ω	"	"
R220	QRD141J-331S	"	"	"
R231	QRD141J-471S	470 Ω	"	"
R232	QRD141J-471S	"	"	"
R233	QRD141J-473S	47 k Ω	"	"
R234	QRD141J-473S	"	"	"
R235	QRD141J-562S	5.6 k Ω	"	"

Resistors

Item No.	Part Number	Rating		Description
R236	QRD141J-562S	5.6 k Ω	1/4 W	Carbon
R237	QRD141J-511S	510 Ω	"	"
R238	QRD141J-511S	"	"	"
R239	QRD141J-303S	30 k Ω	"	"
R240	QRD141J-303S	"	"	"
R241	QRD141J-562S	5.6 k Ω	"	"
R242	QRD141J-562S	"	"	"
R243	QRD141J-471S	470 Ω	"	"
R244	QRD141J-471S	"	"	"
R245	QRD141J-223S	22 k Ω	"	"
R246	QRD141J-223S	"	"	"
R247	QRD141J-562S	5.6 k Ω	"	"
R248	QRD141J-562S	"	"	"
R249	QRD141J-511S	510 Ω	"	"
R250	QRD141J-511S	"	"	"
R251	QRD141J-393S	39 k Ω	"	"
R252	QRD141J-393S	"	"	"
R253	QRD141J-562S	5.6 k Ω	"	"
R254	QRD141J-562S	"	"	"
R255	QRD141J-511S	510 Ω	"	"
R256	QRD141J-511S	"	"	"
R257	QRD141J-363S	36 k Ω	"	"
R258	QRD141J-363S	"	"	"
R259	QRD141J-562S	5.6 k Ω	"	"
R260	QRD141J-562S	"	"	"
R261	QRD141J-101S	100 Ω	"	"
R262	QRD141J-101S	"	"	"
R263	QRD141J-680S	68 Ω	"	"
R264	QRD141J-680S	"	"	"
R265	QRD141J-151S	150 Ω	"	"
R266	QRD141J-151S	"	"	"
R267	QRD141J-101S	100 Ω	"	"
R268	QRD141J-101S	"	"	"
R269	QRD141J-121S	120 Ω	"	"
R270	QRD141J-121S	"	"	"
R271	QVZ5010-106	100 k Ω		S. Variable
R272	QVZ5010-106	"		"
R273	QVZ5010-106	"		"
R274	QVZ5010-106	"		"
R275	QVZ5010-106	"		"
R851	QRD149J-680S	68 Ω	1/4 W	Carbon \triangle
R857	QRD149J-820S	82 Ω	"	" \triangle
R858	QRD149J-820S	"	"	" \triangle
R859	QRD149J-680S	68 Ω	"	" \triangle

Others

Item No.	Part Number	Rating	Description
	E10704-001		Circuit Board
	E300796-001		Fastener
P201	QMV5005-003		3P Plug Ass'y
P202	QMV5005-006		6P Plug Ass'y
S201	QST2441-E01		Push Switch

6-(4) TXX-382□ Spectro Peak Indicator P.C. Board Ass'y

Note: TXX-382□-1 varies according to the areas employed. See note (1) when placing an order.

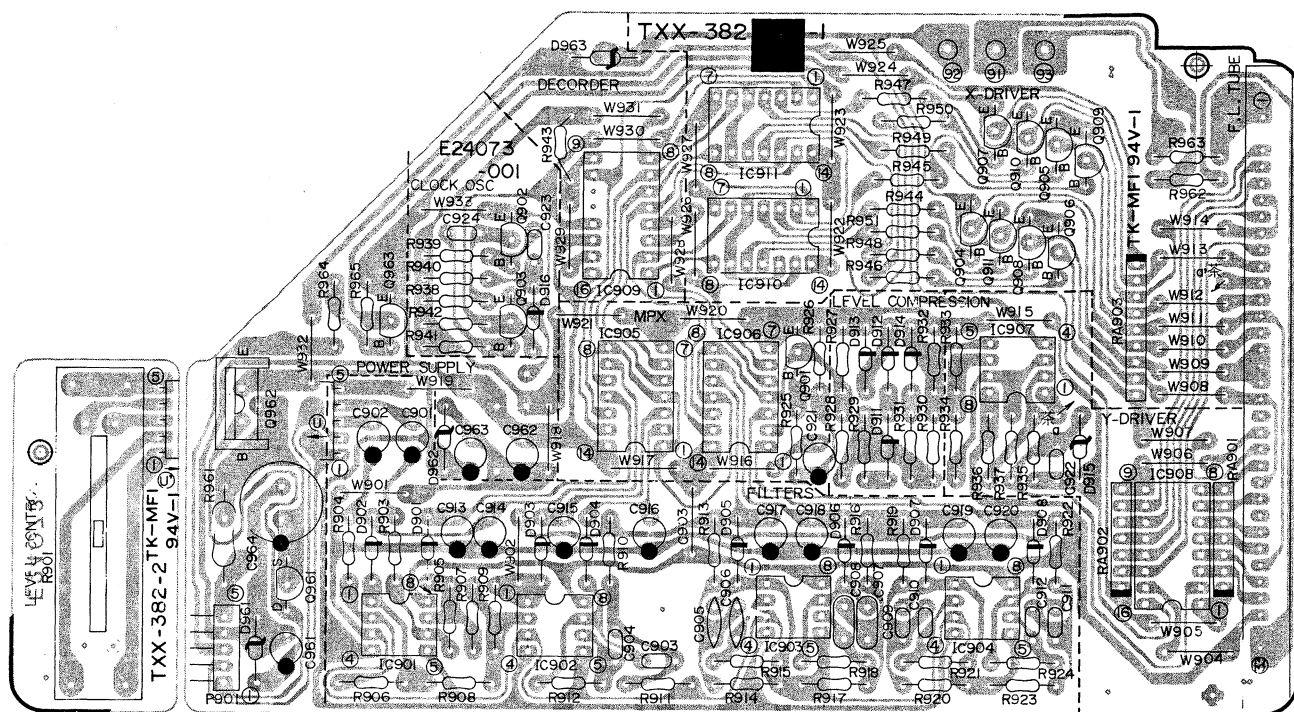


Fig. 10

Note (1)

Designated Areas	P.C. Board Ass'y
U.S.A. and Canada	TXX-382[A]
Europe, U.K., Australia and West Germany	TXX-382[C]
All Other Areas	TXX-382[B]

Note (2) The symbols (赤 , 黒 , 白 ... etc.) on P.C. Board surface are factory process only.

Transistors

Item No.	Part Number	Rating	Description	Maker
Q901	2SC458(C,D)		Silicon	Hitachi
Q902	2SA1029(C,D)		"	"
Q903	2SA1029(C,D)		"	"
Q904	2SA1029(C,D)		"	"
Q905	2SA1029(C,D)		"	"
Q906	2SA1029(C,D)		"	"
Q907	2SA1029(C,D)		"	"
Q908	2SA1029(C,D)		"	"
Q909	2SA1029(C,D)		"	"
Q910	2SA1029(C,D)		"	"
Q911	2SA1029(C,D)		"	"
Q961	2SK105(F)		F.E.T.	NEC
Q962	2SB507V(D,E)		Silicon	Sanyo
Q963	2SA1029(C,D)		"	Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC901	NJM4558D			JRC
IC902	NJM4558D			"
IC903	NJM4558D			"
IC904	AN6552			Matsushita
IC905	TC4016BP			Toshiba
IC906	TC4016BP			"
IC907	AN6552			Matsushita
IC908	HA12010			Hitachi

Integrated Circuits

Item No.	Part Number	Rating	Description	Maker
IC909	TC4017BP			Toshiba
IC910	TC4011BP			"
IC911	TC4011BP			"

Diodes

Item No.	Part Number	Rating	Description	Maker
D901	1S2076-31		Silicon	Hitachi
D902	1S2076-31		"	"
D903	1S2076-31		"	"
D904	1S2076-31		"	"
D905	1S2076-31		"	"
D906	1S2076-31		"	"
D907	1S2076-31		"	"
D908	1S2076-31		"	"
D911	1S2076-31		"	"
D912	1S2076-31		"	"
D913	1S2076-31		"	"
D914	1S2076-31		"	"
D915	RD5.1EB2		Zener	NEC
D916	1S2076-31		Silicon	Hitachi
D961	RD27EB3		Zener	NEC
D962	RD13EB3		"	"
D963	RD5.1EB2		"	"

Capacitors

Item No.	Part Number	Rating	Description
C901	QET51HM-225	2.2 μ F 50 V	Electrolytic
C902	QET51HM-225	" "	"
C903	QFM81HK-273	0.027 μ F "	Mylar
C904	QFM81HK-273	" "	"
C905	QCS21HJ-471	470 pF "	Ceramic
C906	QCS21HJ-471	" "	"
C907	QFM81HK-683	0.068 μ F "	Mylar
C908	QFM81HK-683	" "	"
C909	QFM81HK-682	6800 pF "	"
C910	QFM81HK-682	" "	"
C911	QFM81HK-182	1800 pF "	"
C912	QFM81HK-182	" "	"
C913	QET51HM-225	2.2 μ F "	Electrolytic
C914	QET51HM-225	" "	"
C915	QET51HM-225	" "	"
C916	QET51HM-225	" "	"
C917	QET51HM-225	" "	"
C918	QET51HM-225	" "	"
C919	QET51HM-225	" "	"
C920	QET51HM-225	" "	"
C921	QET51EM-226	22 μ F 25 V	"
C922	QFM81HK-103	0.01 μ F 50 V	Mylar
C923	QFM81HK-472	4700 pF "	"
C924	QFM81HK-222	2200 pF "	"
C961	QET51HM-105	1 μ F "	Electrolytic
C962	QET51EM-226	22 μ F 25 V	"
C963	QET51EM-226	" "	"
C964	QET51HM-227	220 μ F 50 V	"

Resistors

Item No.	Part Number	Rating	Description
R901	QVZ5202-001	50 k Ω	Variable
R903	QRD141J-103S	10 k Ω 1/4 W	Carbon
R904	QRD141J-103S	" "	"

Resistors

Item No.	Part Number	Rating	Description
R905	QRD141J-753S	75 k Ω 1/4 W	Carbon
R906	QRD141J-753S	" "	"
R907	QRD141J-203S	20 k Ω "	"
R908	QRD141J-203S	" "	"
R909	QRD141J-103S	10 k Ω "	"
R910	QRD141J-333S	33 k Ω "	"
R911	QRD141J-182S	1.8 k Ω "	"
R912	QRD141J-304S	300 k Ω "	"
R913	QRD141J-303S	30 k Ω "	"
R914	QRD141J-182S	1.8 k Ω "	"
R915	QRD141J-274S	270 k Ω "	"
R916	QRD141J-563S	56 k Ω "	"
R917	QRD141J-332S	3.3 k Ω "	"
R918	QRD141J-514S	510 k Ω "	"
R919	QRD141J-333S	33 k Ω "	"
R920	QRD141J-182S	1.8 k Ω "	"
R921	QRD141J-304S	300 k Ω "	"
R922	QRD141J-333S	33 k Ω "	"
R923	QRD141J-182S	1.8 k Ω "	"
R924	QRD141J-304S	300 k Ω "	"
R925	QRD141J-562S	5.6 k Ω "	"
R926	QRD141J-243S	24 k Ω "	"
R927	QRD141J-104S	100 k Ω "	"
R928	QRD141J-473S	47 k Ω "	"
R929	QRD141J-272S	2.7 k Ω "	"
R930	QRD141J-224S	220 k Ω "	"
R931	QRD141J-392S	3.9 k Ω "	"
R932	QRD141J-683S	68 k Ω "	"
R933	QRD141J-123S	12 k Ω "	"
R934	QRD141J-133S	13 k Ω "	"
R935	QRD141J-331S	330 Ω "	"
R936	QRD141J-333S	33 k Ω "	"
R937	QRD141J-122S	1.2 k Ω "	"
R938	QRD141J-472S	4.7 k Ω "	"
R939	QRD141J-224S	220 k Ω "	"
R940	QRD141J-242S	2.4 k Ω "	"
R941	QRD141J-104S	100 k Ω "	"
R942	QRD141J-242S	2.4 k Ω "	"
R943	QRD141J-473S	47 k Ω "	"
R944	QRD141J-103S	10 k Ω "	"
R945	QRD148J-103S	" "	"
R946	QRD141J-103S	" "	"
R947	QRD141J-103S	" "	"
R948	QRD141J-103S	" "	"
R949	QRD148J-103S	" "	"
R950	QRD141J-103S	" "	"
R951	QRD141J-103S	" "	"
R961	QRG017J-220S	22 Ω 1 W	O.M. Film Δ
R962	QRD149J-3R3S	3.3 Ω 1/4 W	Carbon Δ (for A,B)
R962	QRD149J-3R9S	3.9 Ω "	" Δ (for C)
R963	QRD149J-2R7S	2.7 Ω "	" Δ (for A)
R964	QRD141J-103S	10 k Ω "	Carbon
R965	QRD141J-333S	33 k Ω "	"
RA901	ERGS6XK-334	330 k Ω "	Resistor Array
RA902	ERGS6XK-334	" "	"
RA903	ERGS8XK-123	12 k Ω "	"

Others

Item No.	Part Number	Rating	Description
P901	E24073-001 ELU0001-009 SBSB3008Z E67357-002 QMV5004-005		Circuit Board Fluorescent Lamp Tapping Screw Heat Sink 5 Pin Plug Ass'y

6-(5) TXX-396A Volume Indicator P.C.Board Ass'y

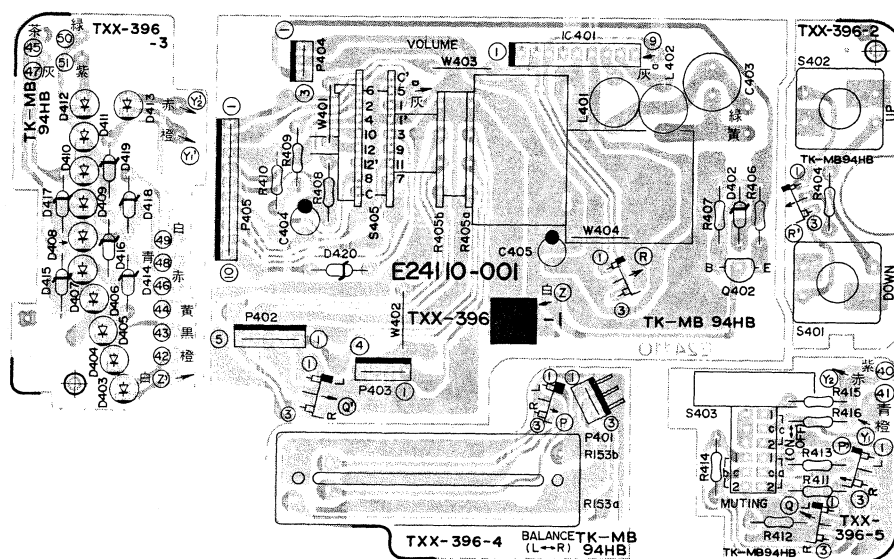


Fig. 11

Note: The symbols (赤, 黒, 白 ... etc.) on P.C. Board surface are factory process only.

Transistor

Item No.	Part Number	Rating	Description
Q402	2SC458(C,D)		Silicon
			Maker Hitachi

Capacitors

Item No.	Part Number	Rating	Description
C403	QE20046-106	10 μ F, 50 V	N.P. Electrolytic
C404	QET51HM-475	4.7 μ F	Electrolytic
C405	QET51AM-476	47 μ F, 10 V	"

Integrated Circuit

Item No.	Part Number	Rating	Description
IC401	BA6208A		Maker ROHM

Diodes

Item No.	Part Number	Rating	Description
D402	RD2.7EB2		Zener
D403	SLR-34MC5F		LED
D404	SLR-34MC5F		"
D405	SLR-34MC5F		"
D406	SLR-34MC5F		"
D407	SLR-34MC5F		"
D408	SLR-34MC5F		"
D409	SLR-34MC5F		"
D410	SLR-34MC5F		"
D411	SLR-34MC5F		"
D412	SLR-34MC5F		"
D413	SLR-34DC5F		"
D414	RD13EB3		Zener
D415	RD11EB3		"
D416	RD9.1EB3		"
D417	RD6.8EB3		"
D418	RD4.7EB2		"
D419	RD2.7EB2		"
D420	RD15EB3		"

Coils

Item No.	Part Number	Rating	Description
L401	EQL2002-200K		Inductor
L402	EQL2002-200K		"

Resistors

Item No.	Part Number	Rating	Description
R153	QVT1C6M-1F5	250 k Ω	Variable
R404	QRD148J-472S	4.7 k Ω , 1/4 W	Carbon
R405	QVZ1716-003	100 k Ω	Variable
R406	QRD148J-121S	120 Ω , 1/4 W	Carbon
R407	QRD148J-332S	3.3 Ω	"
R408	QRD148J-220S	22 Ω	"
R409	QRD148J-391S	390 Ω	"
R410	QRD148J-391S	"	"
R411	QRD148J-103S	10 k Ω	"
R412	QRD148J-103S	"	"
R413	QRD148J-823S	82 k Ω	"
R414	QRD148J-823S	"	"
R415	QRD148J-390S	39 Ω	"
R416	QRD148J-271S	270 Ω	"

Others

Item No.	Part Number	Rating	Description
	E24110-001		Circuit Board
	E69236-001		Bracket
	E69443-001		LED Holder
	SBSB3008Z		Tapping Screw
P401	QMV5004-003		3P Plug Ass'y
P402	QMV5005-005		5P Plug Ass'y
P403	QMV5005-004		4P Plug Ass'y
P404	QMV5005-003		3P Plug Ass'y
P405	QMV5005-010		10P Plug Ass'y
S401	ESP0001-005		Push Switch
S402	ESP0001-005		"
S403	QST5101-E02		"

6-(6) TPS-255E AC P.C. Board Ass'y (For U.S.A. & Canada)

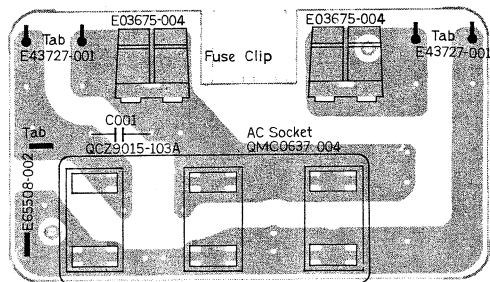
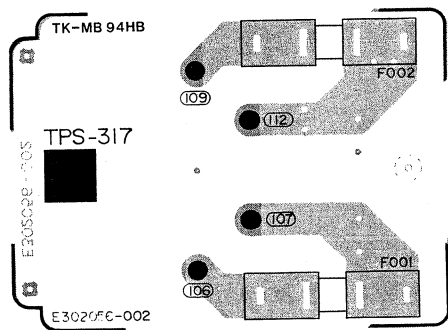


Fig. 12

Item No.	Part Number	Rating	Description
J811	QMC0637-004		AC Socket Δ
C001	QCZ9014-103A	0.01 μ F	Ceramic Δ
	E03675-004		Fuse Clip Δ
	E66003-004		Circuit Board Δ

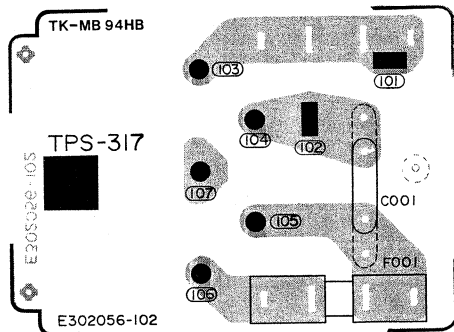
6-(7) TPS-317 Fuse P.C. Board Ass'y

Note: TPS-317 varies according to the areas employed. See note (1) when placing an order.



(for A)

Fig. 13



(for D & EBS)

Fig. 14

Note (1)

Designated Areas	P.C. Board Ass'y
U.S. Military Market & Other Countries	TPS-317 Δ
Europe, Australia	TPS-317 Δ
U.K.	TPS-317 Δ

Item No.	Part Number	Rating	Description
C001	QFZ9016-103	0.01 μ F	Film (for B) Δ
C001	QFZ9016-103BS	"	" (for CBS) Δ
	EMG7331-001		Fuse Clip Δ
	E302056-002		Circuit Board (for)
	E303056-102		" (for D)
	E302056-102BS		" (for EBS)

6-(8) TPS-318A Voltage Selector P.C. Board Ass'y
(For U.S. Military Market & Other Countries)

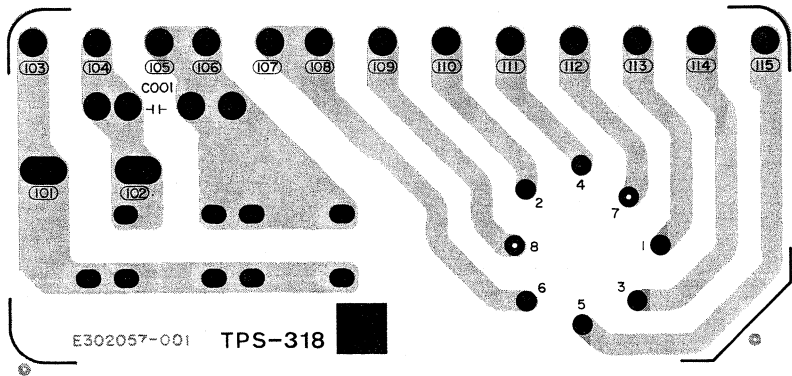
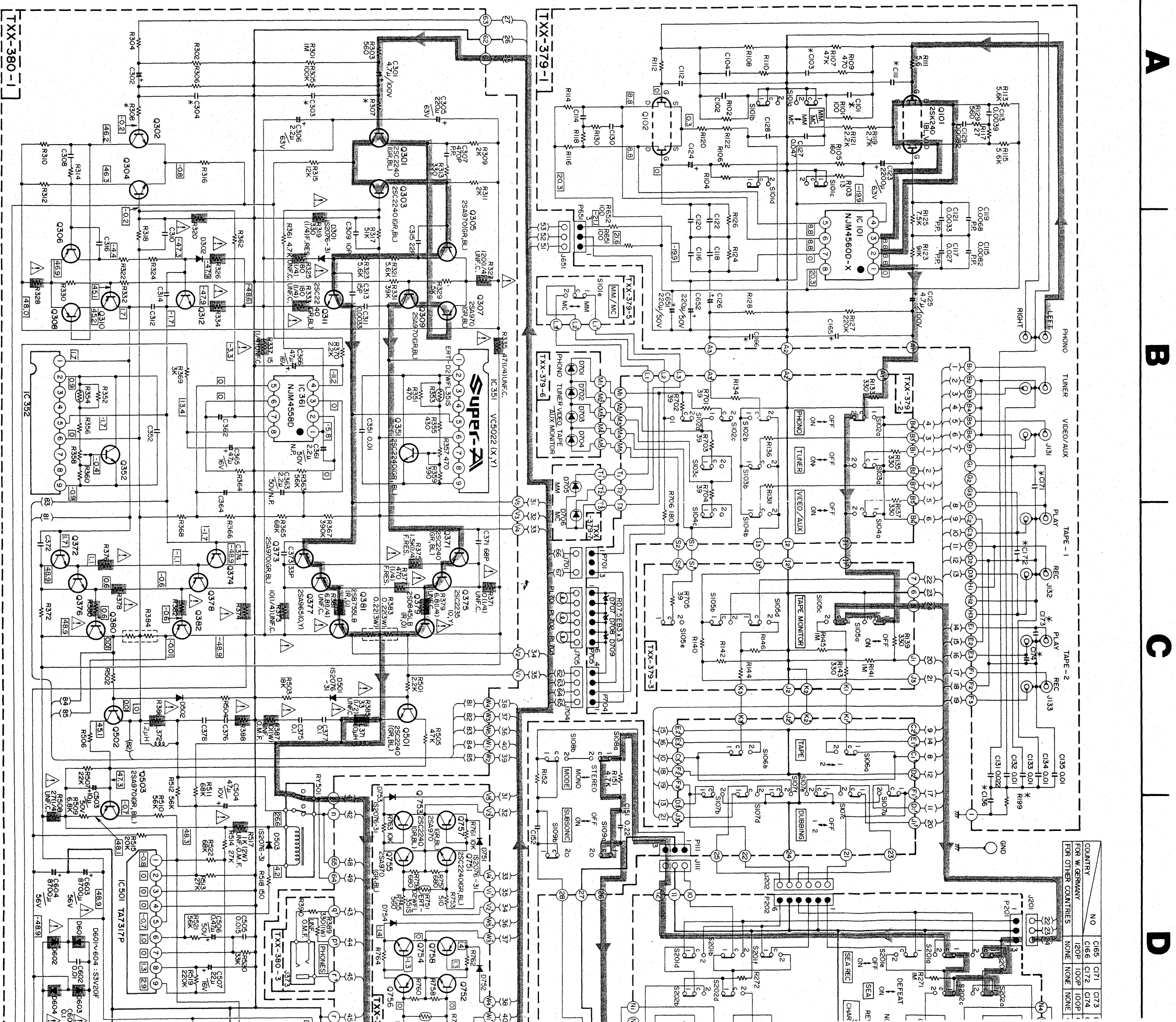


Fig. 15

Item No.	Part Number	Rating	Description
C001	QSR0085-006U		Voltage Selector Δ
	QMC0637-004		AC Socket Δ
	QFH53BM-103M	0.01 μ F	Metalized Mylar Δ
	E302057-001		Circuit Board Δ

7. A-X50 Schematic Diagram



P.C. Board Assy	Description	Page
TXX-379	Equalizer Amp. P.C. Board Assy	6
TXX-380	Power Amp. P.C. Board Assy	8
TXX-381	SEA P.C. Board Assy	11
TXX-382	Spectro Peak Indicator P.C. Board Assy	13
TXX-396A	Volume Indicator P.C. Board Assy	15
TPS-255E	AC P.C. Board Assy	16
TPS-317	Fuse P.C. Board Assy	16
TPS-318A	Volume Selector P.C. Board Assy	16

Printed Circuit Board Assy Locations

- Notes:
- Voltage values in are positive.
 - Voltage values in are negative.
 - indicates positive B power supply.
 - indicates negative B power supply.
 - indicates signal path.
 - When replacing the parts in the darkened area () and those marked with , be sure to use the designated parts to ensure safety.
 - Parts in red indicate transistors or ICs.
 - This is the standard circuit diagram.

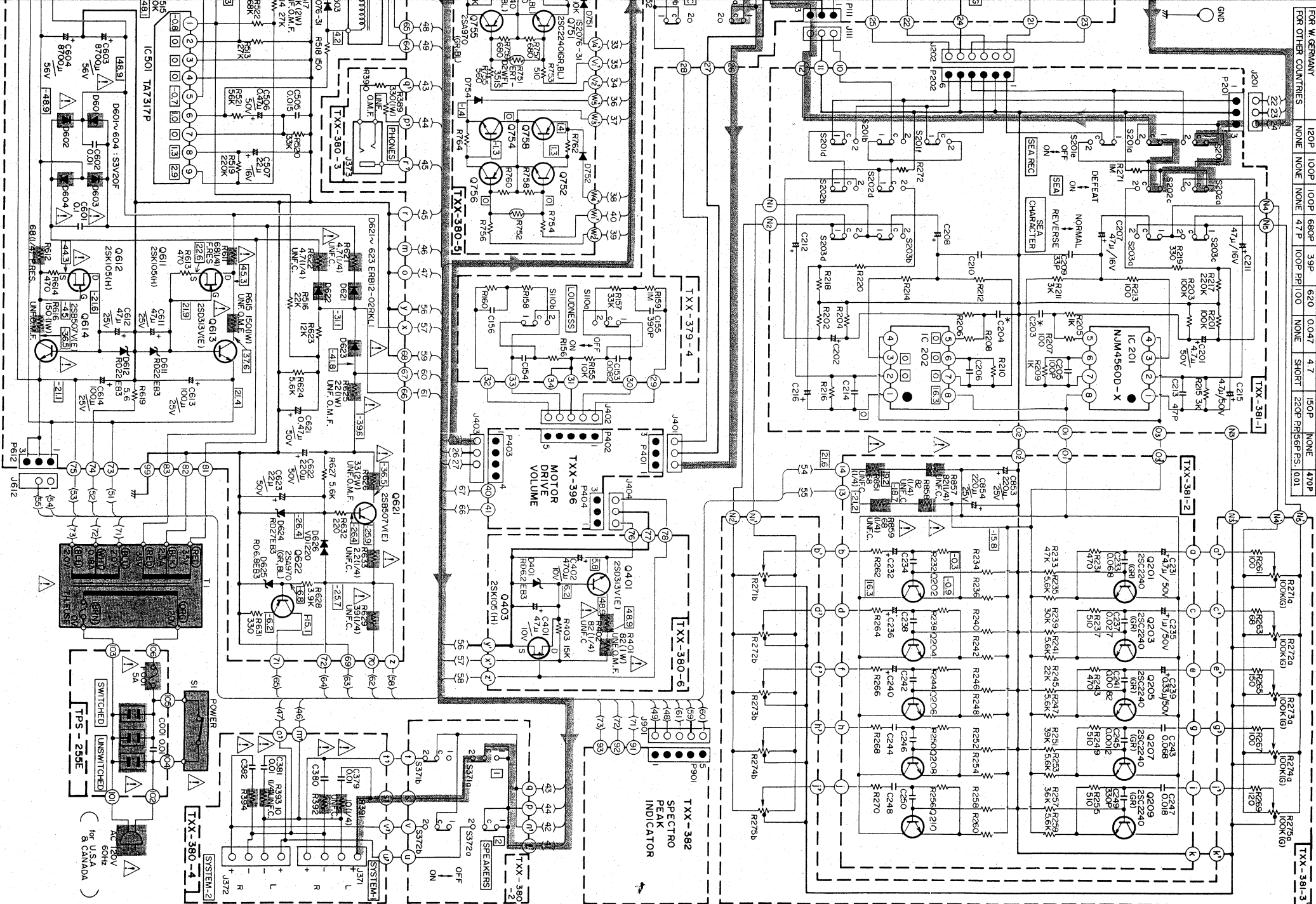
The design and contents are subject to change without notice.

D

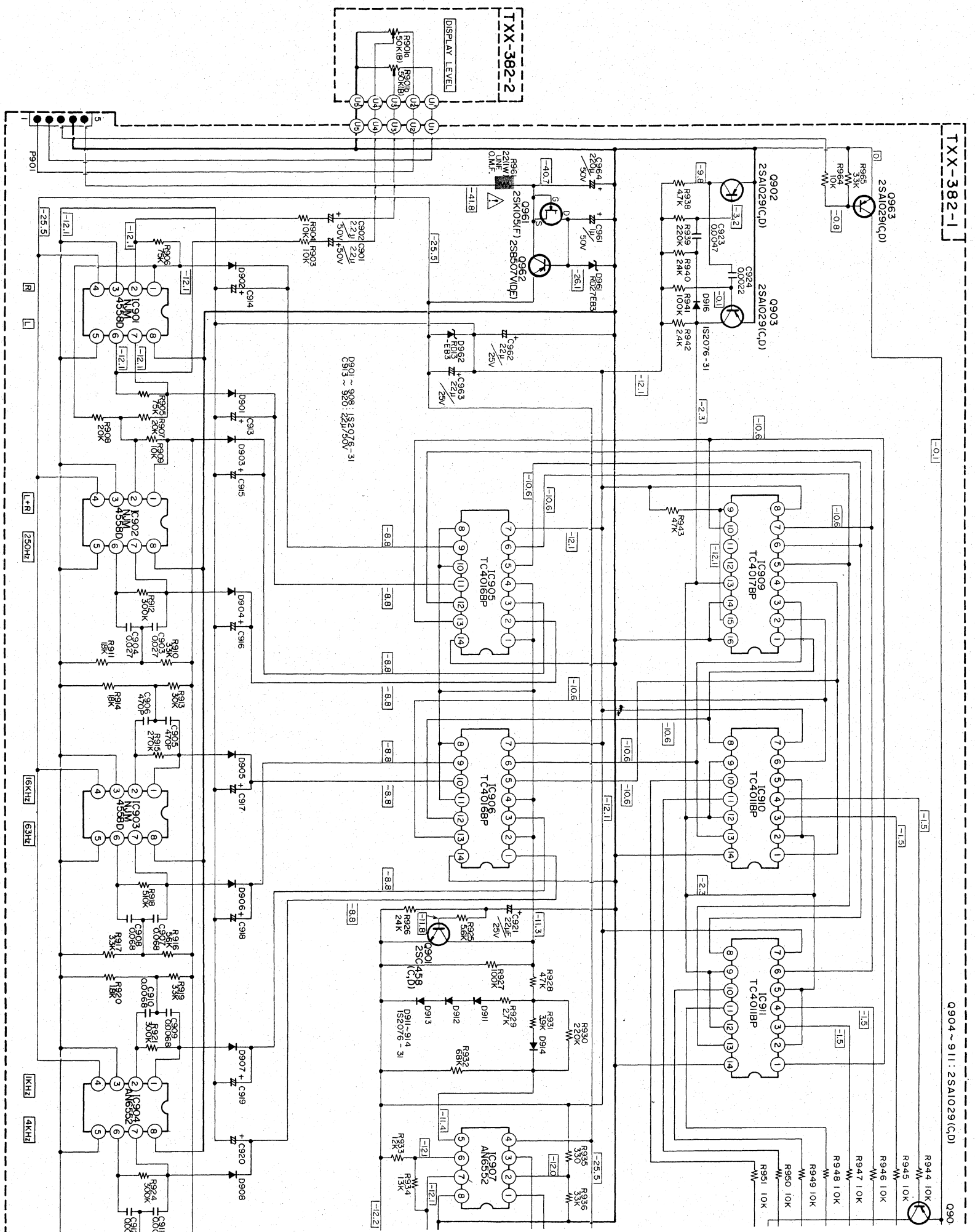
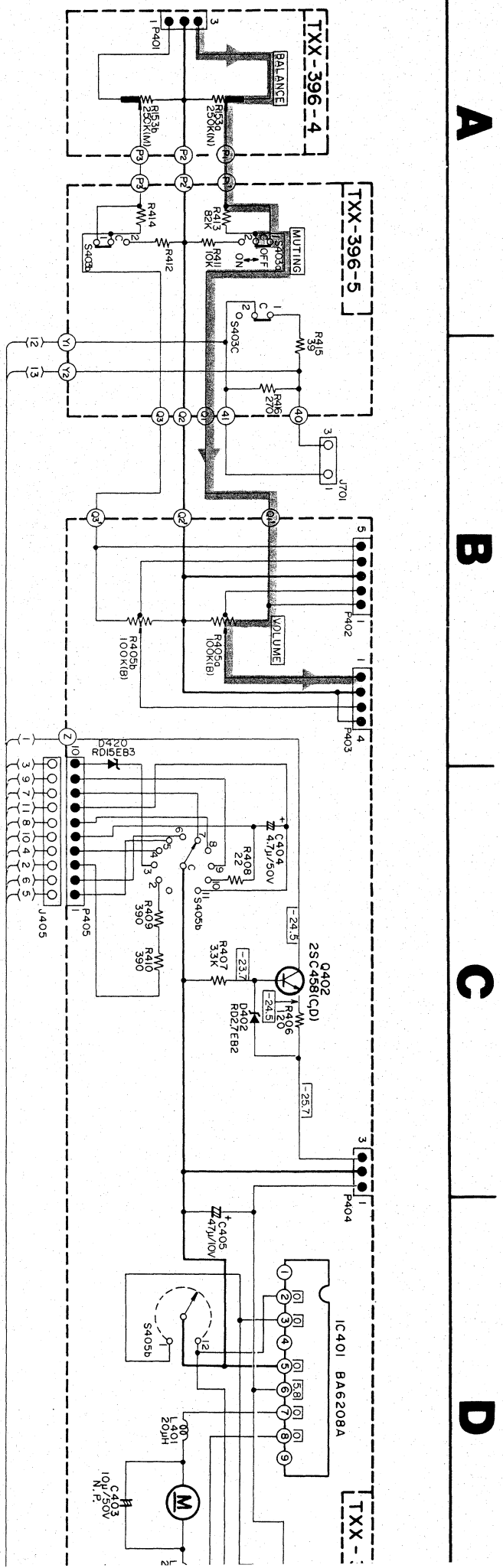
E

F

COUNTRY	NO	C165	C171	C173	C203	C303	R307	C136	R199	C103	C111	C101
FOR W GERMANY	C166	C172	C174	C204	C304	R308		0.047	4.7	150P	NONE	470P
FOR OTHER COUNTRIES	NONE	100P	100P	100P	39P	620	0.047	4.7	150P	220P	PR158P	PS1.001



A-X50 Schematic Diagram



P.C. Board Ass'y	Description	Page
TXX-3790	Equalizer Amp. P.C. Board Ass'y	6
TXX-3800	Power Amp. P.C. Board Ass'y	8
TXX-3810	SEA P.C. Board Ass'y	11
TXX-3820	Spectro Peak Indicator P.C. Board Ass'y	13
TXX-396A	Volume Indicator P.C. Board Ass'y	15
TPS-255E	AC P.C. Board Ass'y	16
TPS-317	Fuse P.C. Board Ass'y	16
TPS-318A	Volume Selector P.C. Board Ass'y	16

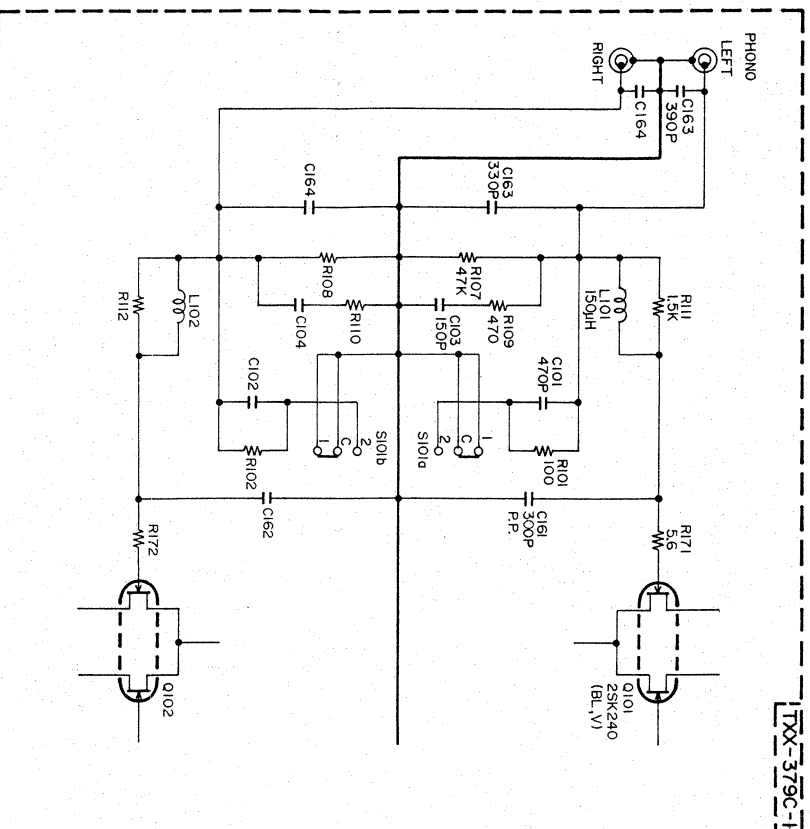
Printed Circuit Board Ass'y Locations

A B C D

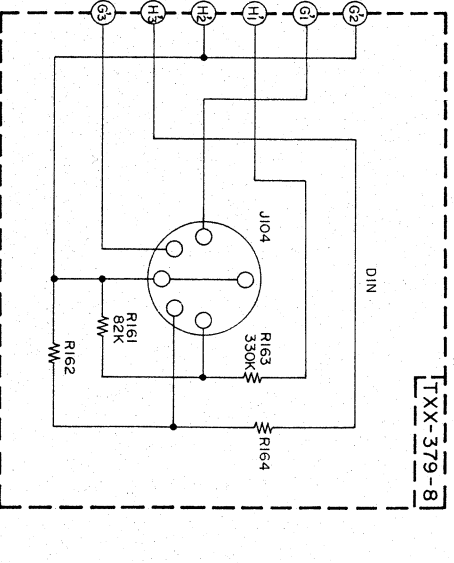
- Notes:
1. Voltage values in \square are positive.
 2. Voltage values in \square are negative.
 3. \square indicates positive B power supply.
 4. \square indicates negative B power supply.
 5. \square indicates signal path.
 6. When replacing the parts in the darkened area (\square) and those marked with Δ , be sure to use the designated parts to ensure safety.
 7. Parts in red indicate transistors or ICs.
 8. This is the standard circuit diagram.
- The design and contents are subject to change without notice.

A-X50 Schematic Diagram

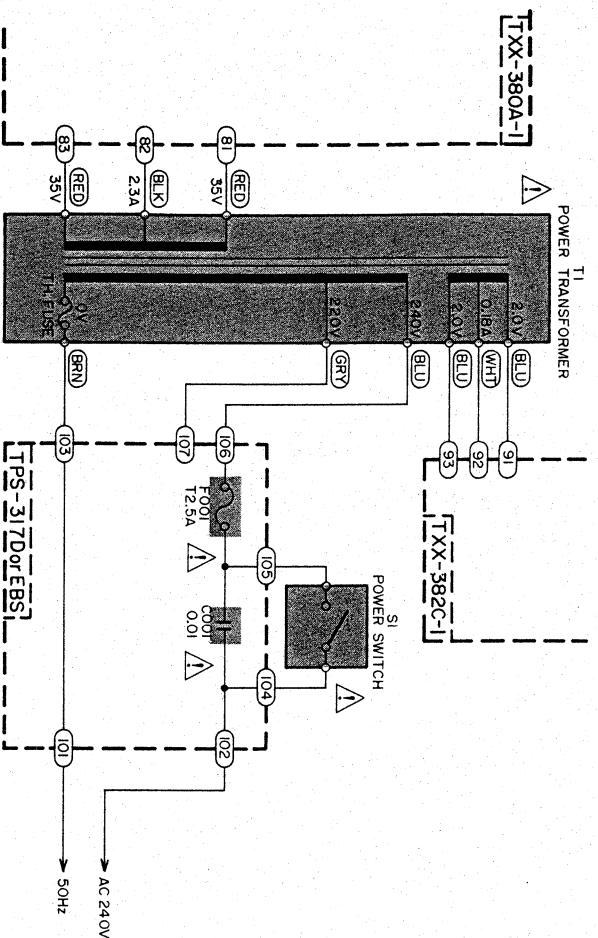
EQUALIZER INPUT SECTION
(G) FOR WEST GERMANY



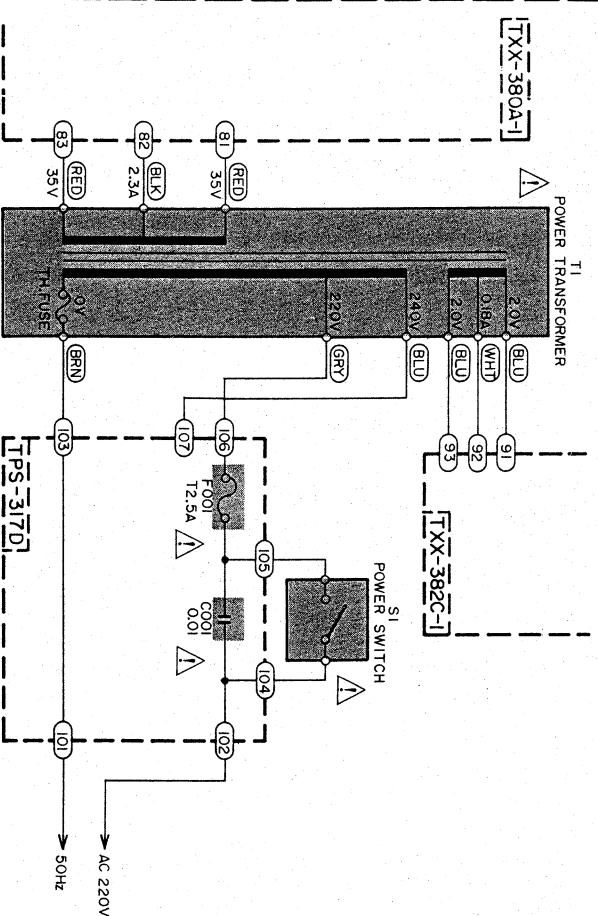
DIN CONNECTOR (E),(BS),(A),(P),(U)
FOR EUROPE, U.K., AUSTRALIA, U.S. MILITARY MARKET
and OTHER COUNTRIES (EXCEPT U.S.A. and CANADA)



FOR U.K. and AUSTRALIA

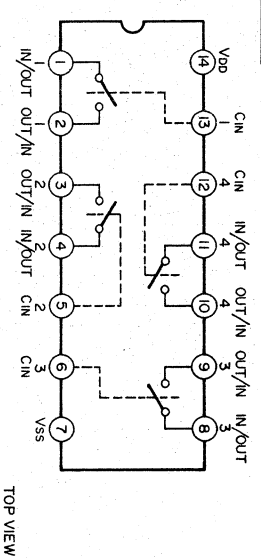


FOR EUROPE

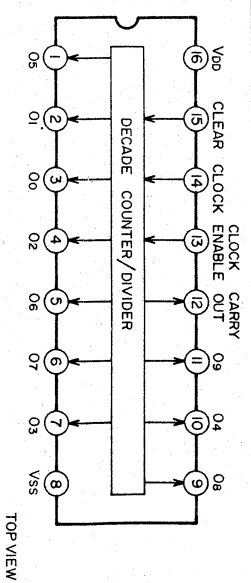


FOR

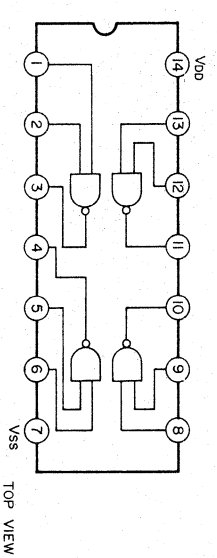
TC4016BP



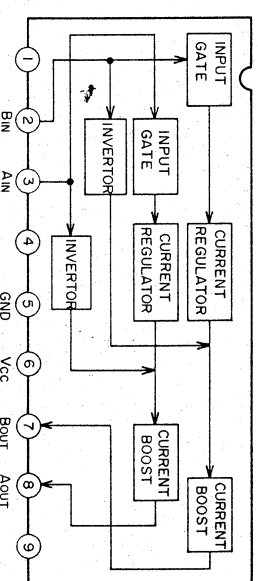
TC4017BP



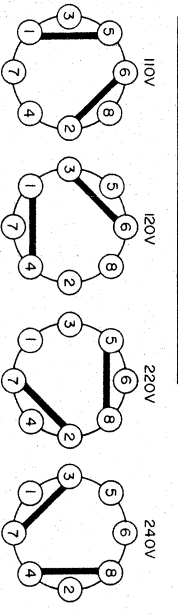
TC4011BP



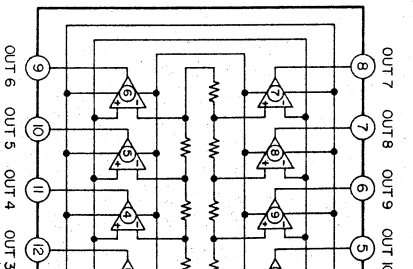
BA6208



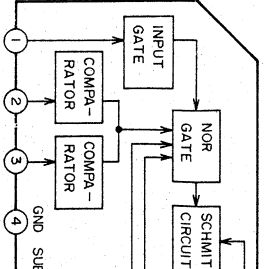
VOLTAGE	SELECTOR	CONNECTION
115	1	1
230	2	2
400	3	3
600	4	4
800	5	5
1000	6	6
1150	7	7
1300	8	8
1500	9	9
1750	10	10
2000	11	11
2250	12	12
2500	13	13
2750	14	14
3000	15	15
3250	16	16
3500	17	17
3750	18	18
4000	19	19
4250	20	20
4500	21	21
4750	22	22
5000	23	23
5250	24	24
5500	25	25
5750	26	26
6000	27	27
6250	28	28
6500	29	29
6750	30	30
7000	31	31
7250	32	32
7500	33	33
7750	34	34
8000	35	35
8250	36	36
8500	37	37
8750	38	38
9000	39	39
9250	40	40
9500	41	41
9750	42	42
10000	43	43
10250	44	44
10500	45	45
10750	46	46
11000	47	47
11250	48	48
11500	49	49
11750	50	50
12000	51	51
12250	52	52
12500	53	53
12750	54	54
13000	55	55
13250	56	56
13500	57	57
13750	58	58
14000	59	59
14250	60	60
14500	61	61
14750	62	62
15000	63	63
15250	64	64
15500	65	65
15750	66	66
16000	67	67
16250	68	68
16500	69	69
16750	70	70
17000	71	71
17250	72	72
17500	73	73
17750	74	74
18000	75	75
18250	76	76
18500	77	77
18750	78	78
19000	79	79
19250	80	80
19500	81	81
19750	82	82
20000	83	83
20250	84	84
20500	85	85
20750	86	86
21000	87	87
21250	88	88
21500	89	89
21750	90	90
22000	91	91
22250	92	92
22500	93	93
22750	94	94
23000	95	95
23250	96	96
23500	97	97
23750	98	98
24000	99	99
24250	100	100
24500	101	101
24750	102	102
25000	103	103
25250	104	104
25500	105	105
25750	106	106
26000	107	107
26250	108	108
26500	109	109
26750	110	110
27000	111	111
27250	112	112
27500	113	113
27750	114	114
28000	115	115
28250	116	116
28500	117	117
28750	118	118
29000	119	119
29250	120	120



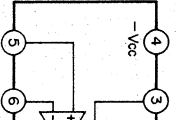
HA12010




TA7317P



NJM4560D-X, NJM4558D



- Notes:**
1. When replacing the parts in the darkened area () and those marked with Δ , be sure to use the designated parts to ensure safety.
 2. Parts in red indicate transistors or ICs.
 3. This is the standard circuit diagram.
- The design and contents are subject to change without notice.

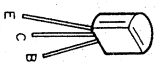
TOP VIEW

[illegible]

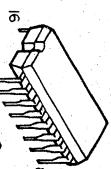
TOP VIEW



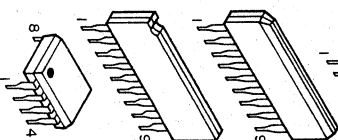
2SD845LB(R,0)	Q379, 380
2SB755LB(R,0)	Q381, 382



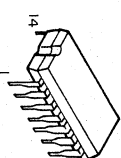
25C2240 (GR) Q201 ~ 210
25C2240 (GR, BL) Q301 ~ 304
Q311, 312
25A10B4 (D, E) Q605 ~ 610
25C2546 (E, F) Q611, 612
25C2240 (GR, BL) Q351, 352
Q371, 372
Q501, 502
25A970 (GR, BL) Q305 ~ 310



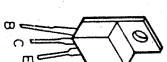
HA12010	IC908
TC4017BP	IC909



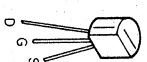
TA7317P	IC501
VC5022 (X,Y)	IC351, 352
BA6208A	IC401



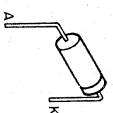
NJM4560D-X	IC101
	IC201, 202
NJM4558D	IC361
	IC901 ~904
AN6552	IC907
TC4011BP	IC910, 911
TC4016BP	IC905, 906



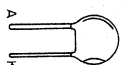
2SCC2235(0, Y)	0.375, 37.6
2SA9655(0, Y ¹)	0.377, 37.8
2SC22240(GR, BL)	0.751 ~ 75.4
2SA4970(G, BL)	0.755 ~ 75.8
2SA10293(G, D)	0.902 ~ 911, 0.965
2SC4258(C, D)	0.402, 901
2SB507V(E)	0.614, 621
2SB507 V(0, E)	0.962
2SD313V(E)	0.613, 401



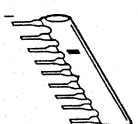
2SK105(H)	Q611, 612, Q403
2SK105(F)	Q961



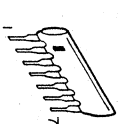
S3V20F
ERB12-02RKL



VDI 220 D626



ERGS8XK-123 RA903



ERGS6XK-334 RA901, 902

8. Packing Materials and Part Numbers

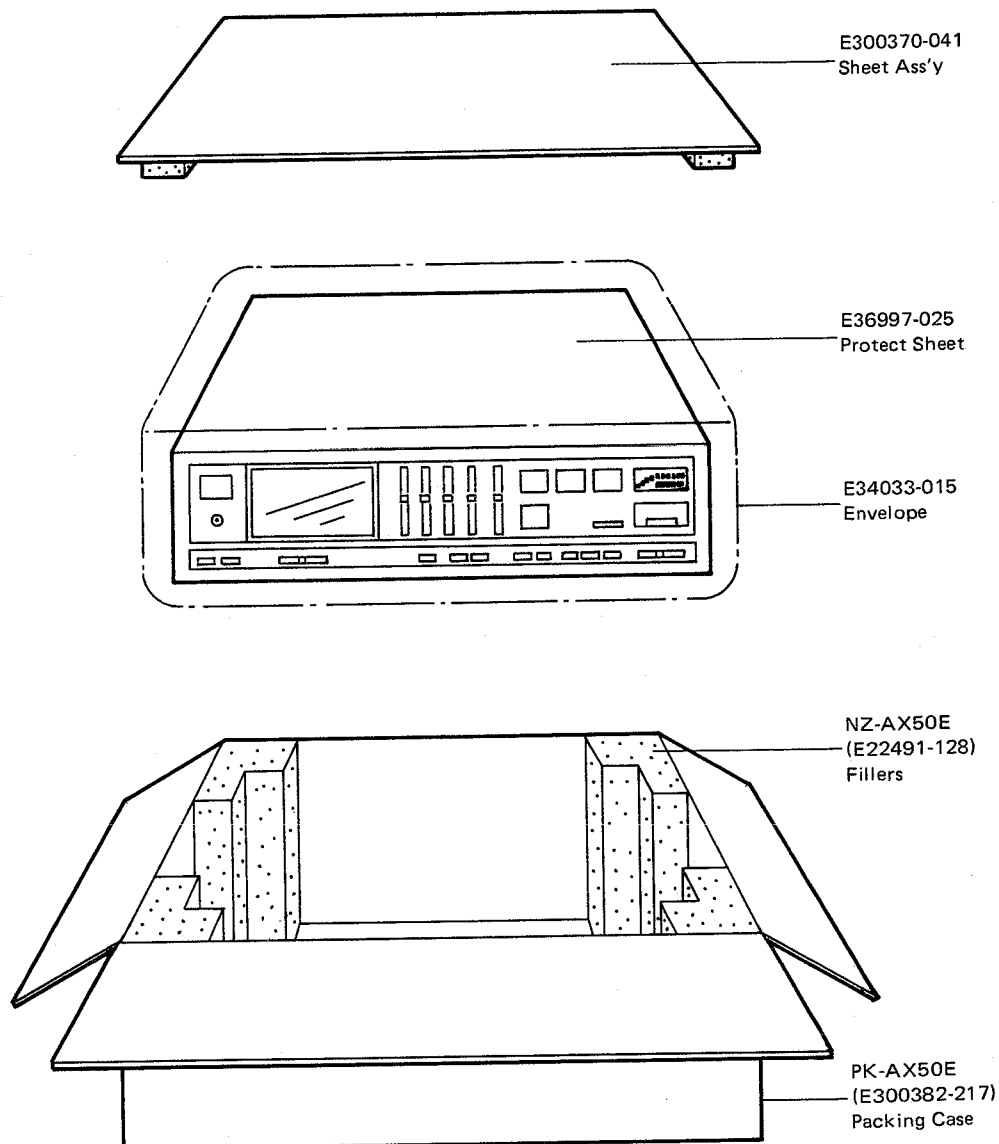










Fig. 16

9. Accessories List

Description	U.S.A. and Canada	Europe and West Germany	U.K.	Australia	U.S. Military Market and Other Countries
Instruction Book	E30580-917A	E30580-917A	E30580-917ABS	E30580-917A	E30580-917A
Warranty Card	BT20048 (for U.S.A.) BT20025E (for Canada)	BT20054-002A (for W. Germany only)	BT20013C	BT20029C	BT20048 (for U.S. Military Market only)
Service Information Card	BT20046A (for U.S.A. only)	—	—	—	BT20046A (for U.S. Military Market only)
JVC Safety Instruction	BT20044D (for U.S.A. only)	—	—	—	—
Envelope for Instruction Book	E41202-2	E41202-2	E41202-2	E41202-2	E41202-2
Envelope for Warranty Card	E66416-003	—	—	—	—
Siemens Plug	—	—	—	—	E04056

10. Parts List with Specified Numbers for Designated Areas

Item No.	Description	U.S.A. & Canada	U.K.	Europe & West Germany	Australia	U.S. Military Market & Other Countries
1	Power Transformer 	ETP1200-03JA	ETP1200-03EABS	ETP1200-03EA	ETP1200-03EA	ETP1200-03FA
2	Power Switch 	QSP1110-310	QSP1106-002BS	QSP1106-002	QSP1106-002	QSP1106-002
3	Switch Cover 	—	E67520-002	E67520-002	E67520-002	—
4	Fuse 	QMF61U1-5R0	QMF51A2-2R5LBS	QMF51A2-2R5L	QMF51A2-2R5L	QMF51A2-5R0S or QMF51A2-2R5L
5	Rear Panel	E24127-001	E24127-002	E24127-002	E24127-002	E24127-003
6	Power Cord 	QMP1200-200	QMP9017-008BS	QMP3900-200	QMP2560-244	QMP7600-250
7	Cord Stopper 	QHS3876-162	QHS3876-162BS	QHS3876-162	QHS3876-162	QHS3876-162
8	Din Socket	—	E03623-003	E03623-003	E03623-003	E03623-003
9	AC Outlet 	QMC0637-004	—	—	—	QMC0637-004
10	Voltage Selector 	—	—	—	—	QSR0085-006U

: Safety Parts

11. Power Specifications

Areas	U.S.A. & Canada	U.K. & Australia	Europe & West Germany	U.S. Military Market & Other Countries
Line Voltage & Frequency	AC120 V, 60 Hz	AC240 V, 50 Hz	AC220 V, 50 Hz	AC110/120/220/240 V Selectable, 50/60 Hz
Power Consumption	30 watts, 390 VA	380 watts	380 watts	380 watts

JVC

VICTOR COMPANY OF JAPAN, LIMITED, TOKYO, JAPAN



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